Appendix C.
Statistical Methodology

THE SCREENING PHASE AND THE MAIL LIST MODEL

The 1997 Census of Agriculture featured a pre-census screening phase that surveyed selected records, by mail or telephone, for presence or absence of agricultural activity. Records selected for screening had a low probability of qualifying as farms. All records responding to the screener and reporting no agricultural activity were removed from the census mail list. Eliminating nonfarm records from the mail list reduced respondent burden and data collection costs.

The screening phase included nearly 500,000 records. Records were selected for screening using one of the following criteria:

1) Records on selected agriculture specialty lists that had no other list source,

2) Records identified by a mail list model as having a low probability of being a farm.

A mail list model predicted the probability that an addressee on the 1997 preliminary census mail list operated a farm. The model defined groups based on combinations of characteristics such as source(s) of the mail list record, expected value of agricultural production, and geographic location. Farm proportions were estimated for these groups by calculating the proportion of 1992 census respondent records that were farms which exhibited the characteristics defined by the group. This proportion, also called the in-scope rate, provided an estimate of the probability that an addressee in the group operated a farm.

Each address record on the 1997 preliminary census mail list was assigned to a model group by matching record characteristics to model group characteristics. Records belonging to the groups with the highest farm probability were those more likely to be farms. Records with a farm probability of approximately 30 percent or less were selected for screening, along with records included on selected agriculture specialty lists as noted above.

Before screening, the preliminary census mail list consisted of 3,314,790 records. There were 478,298 records selected for screening. Of these, 125,570 records were determined to be nonfarms as a result of the screening phase and were removed. These records were removed from the final census mail list. The remaining 3,189,220 records received census report forms.

CENSUS SAMPLE DESIGN

All name and address records on the final census mail list were designated to receive a 1997 Census of Agriculture report form. Two different types of census report forms, sample and nonsample, were used to collect data. Sections 1 through 20 and 28 through 32 of the sample form were identical to sections on the nonsample census form. Sample form sections 21 through 27 contained additional questions on usage of fertilizers and chemicals, farm production expenditures, value of machinery and equipment, value of land and buildings, farm-related income, and hired workers. There were 11 regional versions of the nonsample form and 13 regional versions of the sample form with listings of crops varying by region. These different forms were used to reduce the response burden of the census, while providing reliable information on a large number of data items.

The sample form was mailed to all mail list records in Alaska, Hawaii, and Rhode Island and to a sample of records in other States selected from the final mail list. Mail list records were selected into the sample with certainty if they (1) were expected to have large total value of agricultural products sold or large acreage, (2) were multi-unit operations (i.e., separate farms producing under one company organization), (3) were in a county with less than 100 farms in 1992, or (4) had other special characteristics. Farms with special characteristics were abnormal farms, such as institutional farms, experimental and research farms, and Indian reservations. Mail list records in counties containing 100 to 199 farms in 1992 were systematically sampled at a rate of 1 in 2; records in counties containing 200 to 299 farms in 1992 were systematically sampled at a rate of 1 in 4; and records in counties containing 300 or more farms in 1992 were systematically sampled at a rate of 1 in 6. The remaining mail list records not chosen to receive the sample form received the nonsample census form. This differential sampling scheme was used to provide reliable data for the sample sections of the report form for all counties.

EDITING DATA AND IMPUTATION FOR ITEM NONRESPONSE

The census of agriculture complex edit and imputation system is an automated computerized system that performed the following functions:

- Ensured reasonable relationships between/among data items, values for various sizes of farms, combinations of commodities, and economic interactions.
- Ensured necessary consistencies were present (there were more than 70 distinct consistency requirements).
- Ensured climatic, geographic, legal, and physical constraints were met.

The system performed these and similar functions for more than 900 data key codes for sample records and approximately 850 data key codes for nonsample records.

For the 1997 Census of Agriculture, as in previous censuses, all reported data were keyed and then edited by computer. The edits were used to determine whether the reports met the minimum criteria to be counted as farms in the census. The complex edit and imputation system provided the basis for deciding to accept, impute (supply), delete, or alter the reported value for each data record item.

Whenever possible, edit imputations, deletions, and changes were based on component or related data on the respondent's report form. For some items, such as operator characteristics, data for that record from the previous census were used when available. Values for other missing or unacceptable reported data items were calculated based on reported quantities and known fixed price parameters.

When these and similar methods were not available and values had to be supplied, the imputation process used information reported for another farm operation in a geographically adjacent area with characteristics similar to those of the farm operation with incomplete data. For example, a farm operation that reported acres of corn harvested, but did not report quantity of corn harvested, was assigned the same bushels of corn per acre harvested as that of the last nearby farm with similar characteristics that reported acceptable yields during that particular execution of the computer edit. The imputation for missing items in each section of the report form was conducted separately; thus, assigned values for one operation could come from more than one respondent.

Prior to the imputation operation, a set of default values and relationships was assigned to the possible imputation variables. The relationships and values varied depending on the item being imputed. For example, different default values were assigned for several Standard Industrial Classifications and total value of sales categories when imputing hired farm labor expenses. These values and item relationships for the possible imputation variables were stored in the computer in a series of matrices.

Each execution of the computer edit consisted of records from only one State sorted by reported State and county. For a given execution of the edit, the stored entries in the various matrices were retained in memory only until a succeeding record having acceptable characteristics for the same sections of the report form was processed by the computer. Then the acceptable responses of the succeeding operation replaced those previously stored. When a record processed through the edit had unreported or unacceptable data, the record was assigned the last acceptable ratio or response from an operation with a similar set of characteristics. Once each execution of the computer edit for a State was completed, the possible imputation variables were reset to the default values and relationships for subsequent executions. An edit run usually consisted of 10,000 or more records.

After the initial computer edit, all keyed reports not meeting the census farm definition were reviewed to ensure that the data had been keyed correctly. Edit referrals were generated for 17 percent of the reports included as farms; they were reviewed for keying accuracy and to ensure that the computer edit actions were correct. If the results of the computer edit were not acceptable, corrections were made and the record re-edited.

CENSUS ESTIMATION

The 1997 Census of Agriculture used two types of statistical estimation procedures to account for whole farm nonresponse and sample data collection. The procedures were necessary because some farm operators did not respond to the census despite numerous attempts to contact them, and estimates for certain data items were based on a sample of farm operators rather than a full enumeration.

Whole Farm Nonresponse Estimation

Whole farm nonresponse to the census occurred when a response was never received for a record. If the record was a large farm, as defined by value of production or acreage, or a unique farm operation, intensive telephone or personal followup was conducted during census processing to obtain a response. If these attempts failed, either the NASS survey database, the census historic database, or other more current sources were used to impute data for the record.

During mail list development, the State Statistical Offices (SSOs), in an effort to reduce respondent burden, identified records that participated in multiple NASS surveys and/or situations where there were special reporting relationships between an enumerator and a respondent. These records were referred to as tagged records. The SSOs had full responsibility for the data collection for these records, including imputation of data for the record if a response was not obtainable.

Whole farm nonresponse that occurred within the remaining universe of records was accounted for by a statistical weighting procedure. The weights of the responding farms were adjusted to account for farms that did not respond. The information needed for this process was obtained from the 1997 Nonresponse Survey. The SSOs conducted the nonresponse survey using computer-assisted telephone interviewing (Blaise-CATI) or personal enumeration when telephone contact was not possible. Alaska and Rhode

Island were not eligible for the survey because all nonrespondents were subject to extensive followup. In these cases, data were collected by telephone or other methods. The nonresponse survey collected information from a sample of census nonrespondents to determine farm status and estimate the proportion of farms in the nonresponse universe. The information was then used to estimate the number of nonresponding farm operations by State and county.

The 1997 Nonresponse Survey consisted of a stratified systematic sample of the nonresponse records within each State. The sample was selected near the end of the census follow-up operations. Five strata were defined to be homogeneous on probability of farm status and were based on screener status, total value produced, and list source(s) of the mail list record.

Based on survey results, estimates of the proportion of census nonrespondents operating farms were made for each stratum in the State. The estimates were applied to the total number of census nonrespondents in that stratum, providing a State estimate of the number of census nonrespondents that operated farms. The number of census nonrespondents that operated farms was then derived for each county by stratum. This estimation procedure assumed that the distribution of farms in a stratum by county was the same for census nonrespondents as for census respondents.

Within each stratum in a county, a noninteger nonresponse weight was calculated and assigned to each eligible respondent farm record. Census respondent farms that were designated as large farms or tagged records or as farms that exhibited ''rare'' commodities were ineligible to represent nonrespondent farms and were excluded from the nonresponse weighting procedure. These records were assigned nonresponse weights of 1.0.

The noninteger nonresponse weight is the ratio of the sum of the estimated number of nonrespondent farms from the nonresponse survey and the number of eligible census respondent farms, divided by the number of eligible census respondent farms. Stratum controls were established to ensure that this weight never exceeded 2.0. For the published tabulations of the complete count items, the noninteger nonresponse weight was randomly rounded to an integer weight of either 1 or 2 for each record. For the sample count items, the noninteger nonresponse weight was used in the calculation of the final sample weight.

Table A quantifies the effect of the nonresponse estimation procedure on selected census data items. The percentages in this table are percents of the census values contributed by nonresponse estimation. These indicate the potential for bias in published figures resulting from nonresponse to the census. The estimates provided in this table do not reflect the effect of item nonresponse to individual census data items. The effect of this item nonresponse is discussed in the ''Census Nonsampling Error'' section.

Sample Estimation

Sample data estimation determined the population totals that would have resulted from a complete census for the items in sections 21 through 27 of the sample form. The estimates were obtained from a weighting procedure that assigned a weight to each respondent record containing sample items. For any given county, a sample item total was estimated by multiplying the data items for each farm in the county by the corresponding sample weight and summing over all sample records.

Each respondent sample farm was assigned a sample weight for use in producing estimates for all sample items. For example, if the weight given to a sample farm had the value 6, all sample data items reported by that farm were multiplied by 6.

The noninteger sample weight is calculated for each respondent sample farm by multiplying the noninteger nonrespondent weight by the sampling factor. For published tabulations of the sample count items, the noninteger sample weight was randomly rounded to an integer weight for each record. For certainty farms, the sampling factor equals 1 so the sample weight is just equal to the nonresponse weight. Sampling factor calculation for non-certainty farms is described below.

Within a county, the weighting procedure for non-certainty farms was performed in three steps using three variables. The first variable contained eight 1997 total value of agricultural production (TVP) groups. The second and third variables, Standard Industrial Classification (SIC) code and farm acreage, contained two groups. The three sets of groups were:

TVP	SIC	Acres
$1 to $999	01, 08 All crops	1 to 69
$1,000 to $2,499	02 All livestock	70 or more
$2,500 to $4,999		
$5,000 to $9,999		
$10,000 to $24,999		
$25,000 to $49,999		
$50,000 to $99,999		
$100,000 or more		

The first step in the estimation procedure classified the sample records into 32 mutually exclusive initial strata formed by the three variable groups. The total and sample farm counts were expanded to account for nonresponse. Each cell containing sample farm records was assigned an initial sample factor equal to the ratio of the total farm count to the sample farm count. This factor was approximately equal to the inverse of the probability of selecting a farm for the census sample.

The second step in the estimation procedure combined, when necessary, the 32 initial strata to increase the reliability of the weighting procedure. Any stratum that contained less than 10 sample farms or had a factor greater than twice the mail sample rate was collapsed with another stratum. The mail sample rate was either 2, 4, or 6,

depending on whether the county had a 1 in 2, 1 in 4, or 1 in 6 sample selection rate. The collapsing occurred within the 32 initial strata according to a specified collapsing pattern. After the collapsing process was completed, new total farm counts and sample farm counts were computed from each final strata and used to calculate final sample factors.

The final step calculated the noninteger sample weight as the product of the final sampling factor and the noninteger nonresponse weight. As described previously, the noninteger sample weight for each record is randomly rounded to an integer weight which is used in published tabulations. For example, if the final weight for a farm was 7.2, then the record would be rounded to either 7 or 8.

CENSUS SAMPLING ERROR

The sample for the 1997 Census of Agriculture was only one of a large number of possible samples of the same size that could have been selected using the same sample design. In this context, ''sample'' refers to the sample for both the nonresponse survey and the selection of farms to receive sample forms.

The standard error, or sampling error, of a survey estimate is a measure of the variation among the estimates from all possible samples. It is a measure of precision - that is, how well an estimate from a particular sample approximates the true population parameter. The percent relative standard error of an estimate is defined as the standard error of the estimate divided by the value of the estimate, then multiplied by 100. The true population parameter can be defined or conceptualized several different ways. One way is to think of the true population parameter as the average result of all possible samples (selected using a given sample design). A second way is to think of the true population parameter as the figure obtained from carrying out a complete enumeration of the population.

If all possible samples were selected, each of the samples surveyed under essentially the same conditions, and an estimate and its standard error calculated from each sample, then:

1. Approximately 90 percent of the intervals from 1.65 standard errors below the estimate to 1.65 standard errors above the estimate would include the true population parameter.
2. Approximately 95 percent of the intervals from 1.96 standard errors below the estimate to 1.96 standard errors above the estimate would include the true population parameter.

The following example illustrates the computations necessary to produce a confidence statement for an estimate. Assume that the estimate of number of farms for a State is 94,382 and the relative standard error of the estimate is 0.1 percent (0.001). Multiplying 94,382 by 0.001 yields 94, the standard error; therefore, a 90-percent confidence interval is 94,227 to 94,537 (i.e., 94,382 plus or minus 1.65 x 94). If corresponding confidence intervals were constructed for all possible samples of the same size and design, approximately 90 percent of these intervals would contain the true population parameter. Similarly, a 95-percent confidence interval is 94,198 to 94,566 (i.e., 94,382 plus or minus 1.96 x 94).

Census items were classified as either complete count or sample count items. All farm operators were asked the complete count items. Examples of complete count items were: land in farms, harvested cropland, livestock inventory and sales, crop acreage, quantities harvested and crop sales, land use, irrigation, government loans and payments, conservation acreage, type of organization, and operator characteristics.

Only a sample of farm operators were asked the sample count items. These items appeared only in sections 21 through 27 of the sample form. Sample count items were included under the following section headings: commercial fertilizers, chemicals, production expenses, farm machinery and equipment, value of land and buildings, farm-related income, and hired workers.

Variability in the estimates of complete count items was due only to the nonresponse survey estimation procedure. With regard to the estimates of sample count items, variability was due to both the nonresponse survey estimation procedure and the census sample selection and estimation procedure. Therefore, variability in the sample count item estimates tends to be larger than the variability in the complete count item estimates. Percent relative standard error is a common measure of variability.

Table B provides the generalized reliability estimates of the estimated number of farms in a county that reported complete count and sample count items. The top half of the table shows the percent relative standard errors for estimated number of farms in a county that reported a complete count item, and the bottom half relates to sample count items. These reliability estimates are derived from regression equations. Separate regression equations were used to produce each section of table B. Each regression equation was fit with the estimated number of farms in a county reporting an item as the independent variable and the relative variance of that estimate as the dependent variable for the appropriate counties in the State. To illustrate the use of this table, assume that the estimate of the number of farms reporting hogs and pigs for a particular county, as given in county table 15, is 89. Since hogs and pigs is a complete count data item, refer to the first part of table B and use the estimated percent relative standard error of the estimate from the row with farm count equal to or just less than the estimated number of farms, 89. For this example, the percent relative standard error of the estimate comes from the row for 75 farms reporting. For sample count items, follow the same procedure using the second part of table B. For counties with fewer than 100 farms in the 1992 Census of Agriculture, variability in sample count

item estimates came only from nonresponse survey estimation procedures. The estimated relative standard error for a sample count item in these counties may be obtained using the first part of table B.

Use caution when referring to the ''Sample Count Item'' section of table B to make inferences on counties. Some counties may have been sampled at the rate of 1 in 2 or 1 in 4, but the reliability estimates shown were computed using only data from counties sampled at the rate of 1 in 6. Therefore, the reliability estimates shown would likely be overstated (or conservative) if the county was actually sampled at a higher rate.

Table C presents the percent relative standard error of selected State data items for all farms, and table D presents the percent relative standard error of selected State data items for all farms with sales of $10,000 or more.

Table E presents the standard error for percent change in State totals from 1992 to 1997. The general purpose of the percent change estimate is to provide a relative measure of the difference in a characteristic between censuses. The relative change for a given characteristic is defined as the ratio of the difference of the 1997 and the 1992 estimate for that characteristic to the 1992 estimate. This ratio is multiplied by 100 to obtain the percent change. The standard error of a percent change estimate is the standard error of the ratio multiplied by 100.

Table F presents the percent relative standard error for State and county totals for selected data items. The percent relative standard error of the estimate for the same item differs among counties in the State. Reasons for this are differences among counties in the (1) total number of farms, (2) number of large farms included with certainty, (3) size classifications of the farms sampled, (4) amount of nonresponse, (5) general agricultural characteristics, and (6) specific characteristic being measured.

The farm counts and related estimates displayed in tables A through F relate to unadjusted census totals. These totals are the same as the ''Census total'' displayed in the first column of table G (which will be discussed later in this appendix).

For most of the tables in this appendix, and also many of the tables throughout the publication, there is a footnote that reads ''Data are based on a sample of farms.'' The table entries that this footnote relate to are estimates of totals. To illustrate, suppose that the entry ''other farm-related income'' is shown with this footnote and has some number of farms given. This number given would represent an estimated total number of farms with ''other farm-related income,'' based on the farms that were in the sample. This number should not be interpreted as the number of farms in the sample that have ''other farm-related income.''

CENSUS NONSAMPLING ERROR

The accuracy of the census counts is affected jointly by sampling errors (described in the previous section) and nonsampling errors. Extensive efforts were made to compile a complete and accurate mail list for the census, to design an understandable report form with instructions, and to minimize processing errors through the use of quality control measures. Nonsampling errors arise from many sources, including respondent or enumerator error or incorrect data keying, editing, or imputing for missing data. These nonsampling errors are further discussed in this section. Nonsampling error due to mail list incompleteness and duplication as well as misclassification of records on the mail list is called coverage error. The section titled ''Coverage Evaluation'' discusses the evaluation studies conducted to measure the extent of this error in the census.

Respondent and Enumerator Error

Incorrect or incomplete responses to the census report form or to the questions posed by an enumerator can introduce error into the census data. To reduce reporting error, detailed instructions for completing the report form were provided to each respondent. Questions were phrased as clearly as possible based on previous tests of the report form. In addition, each respondent's answers were checked for completeness and consistency by the complex edit and imputation system.

Item Nonresponse

As information flowed from data collection to tabulation, various types of item nonresponses were identified on the census report forms. Nonresponse to particular questions on the census report form that logically should have been present created a type of nonsampling error in both complete count and sample count data. In this case, information from a similar farm was used to impute for these missing data items. The resulting data may have been biased if the characteristics of the nonreporting respondents were different from those of reporting respondents for those items.

Processing Error

All phases of processing for each census report form were potential sources for the introduction of nonsampling error. An automated check-in recorded that the report had been returned and excluded from further followup mailings. Approximately one-third of the mail returns were reviewed to resolve questions dealing with multiple reports, respondent remarks, or no reported data. The remaining mail returns (about two-thirds) were batched and sent directly to data keying, along with some of the reviewed cases containing farm data. Keyed records were transmitted, formatted, and run through the complex edit and imputation system. About one-fifth of all forms edited were clerically reviewed for inconsistencies, omissions, or questionable values. While reviewing these forms, the edit review staff determined if the action taken by the computer edit and imputation system was correct. Edited records were tabulated to the county level. Each county was reviewed and, when necessary, individual records were corrected prior to publication.

Developing accurate processing methods is complicated by the complex structure of agriculture. Among the complexities are the many places to be included, the variety of arrangements under which farms are operated, the continuing changes in the relationship of operators to the farm operated, the expiration of leases and the initiation or renewal of leases, the problem of obtaining a complete list of agriculture operations, the difficulty of contacting and identifying some types of contractor/contractee relationships, the operator's absence from the farm during the data collection period, and the operator's opinion that part or all of the operation does not qualify and should not be included in the census. During data collection and processing of the census, all operations underwent a number of quality control checks to ensure as accurate an application as possible.

COVERAGE EVALUATION

Coverage Overview

The primary objectives of the census of agriculture are to accurately count U.S. farms, measure commodity production and sales, and measure demographic characteristics of farm operators. Since 1945, an evaluation of census coverage has been conducted for each census of agriculture to provide estimates of the completeness of census farm counts. These results help to identify problems and focus improvements for future censuses.

According to coverage evaluation results, the past five censuses of agriculture included an average of 92 percent of U.S. farms and 98 percent of agriculture production. Complete enumeration of agricultural operations satisfying the farm definition of $1,000 or more in agricultural sales is complicated by the variety of arrangements under which farms are operated, the multiplicity of names used for an operation, the number of operations in which an operator participates, and the difficulty in classifying those operations just around the $1,000 sales range. In 1997, extensive efforts were made to compile as complete and accurate a mail list as possible, while reducing the duplication and number of nonfarm operations on the list.

The 1997 coverage evaluation program was designed to measure four components of error in the census farm counts. These components include:

1. Undercount due to farms Not on the Mail List (NML)
2. Overcount due to farms Duplicated or enumerated more than once (DUP)
3. Undercount due to farms Incorrectly Classified as nonfarms (ICU)
4. Overcount due to nonfarms Incorrectly Classified as farms (ICO).

The first component, mail list undercount, is by far the largest component of coverage error. Duplication, though occurring far less frequently, can involve larger farms and have a larger impact on acreage and sales estimates. The last two components involve the misclassification of either farms or nonfarms. Misclassification can arise from errors in either reporting or processing the data.

Table G - Coverage Estimates - illustrates the effect of coverage adjustments on census farm counts by demographic characteristics, land in farms, and total value of sales. The coverage total is defined as the net difference between undercounted and overcounted farms. The adjusted census total is the sum of the census total and the net coverage total. The relative standard error is shown for the final census coverage adjusted number. This number will be similar to the relative standard error for the census number, except when the coverage total is negative or close to zero. The coverage adjustment percentage shows the coverage total as a percentage of total census adjusted farms for that characteristic.

The 1997 Census of Agriculture is the first census to include all four components of coverage error in table G. Previous publications only included the coverage error component due to farms not on the mail list (NML). Because of this, caution should be taken when comparing coverage estimates from table G with previous years. In addition, the coverage total is a negative number for some characteristics. This means that the number of farms overcounted for this characteristic was greater than the number of farms undercounted.

Area Frame Surveys to Measure Mail List Undercoverage

Names and addresses collected in the 1997 June Agricultural Survey and 1997 Fall Area Survey were used to estimate the undercount due to farms not on the census mail list (NML). These names were matched to the census mail list, and those that did not match were contacted by telephone or person. The enumerator verified whether the operation had reported in the census, and if not, a census of agriculture report form was completed.

The percentage of farms missed in the census varies considerably by State. In general, farms not on the mail list tended to be small in acreage, production, and sales of agricultural products. Farm operations could be missed for various reasons, including the possibility that the operation started after the mail list was developed, the operation may be so small as not to appear in any agriculture-related source lists, or the operation may have been falsely classified as a nonfarm prior to mailout.

Classification Error Survey to Measure Three Types of Coverage Error

The remaining three types of coverage error were measured by the Classification Error Survey. This survey was used to estimate the number of farms counted more than once (DUP), the number of farms misclassified as nonfarms (ICU), and the number of nonfarms misclassified as farms (ICO). A sample of census of agriculture respondents was selected for reinterview to determine their farm/nonfarm status and collect information to identify

potential duplication. The farm classification from this interview was compared with the classification on the census of agriculture report form. Any differences between these two classifications were reconciled to determine the true farm status. Each operation was reviewed for duplication by matching the additional information received from the reinterview (landlords, tenants, other names, etc.) to the list of census respondents. Potential duplication was reviewed and discrepancies reconciled.

In general, the classification error rate is higher for small farms close to the $1,000 agricultural sales requirement. This rate is also higher for farms with small acreage (less than 49 acres), higher for tenant farms than for full- or part-owner farms, and higher for farms where farming is not the operator's principal occupation.

Coverage Estimation

The adjusted census total, T, is estimated as the census farm count, C, plus undercount and minus overcount adjustments. Undercount includes 1) farms not on the mail list (NML) and 2) farms incorrectly classified as nonfarms (ICU). Overcount includes 3) nonfarms incorrectly classified as farms (ICO) and 4) farms duplicated in the census (DUP). Altogether, the adjusted census total is:

$$T = C + (NML + ICU) - (ICO + DUP).$$

In some States, estimates of misclassification of farms owned by operators having rare demographic characteristics were based on particularly small sample sizes. Where such small sample sizes occurred, a form of small area estimation was used in which data from similar States contributed to that State's estimates. In these cases, the coverage totals are weighted totals of the direct State estimate and the direct estimate from the region. Direct estimates were used to the largest extent possible, based on the amount of survey cases available for the particular item being estimated.

Table A. Percent of State Totals Contributed by Whole Farm Nonresponse Estimation: 1997

Item	Percent of total	Item	Percent of total
Farms ..... number	14.1	Corn for grain or seed ..... acres	2.9
Land in farms ..... acres	9.6	Wheat for grain ..... acres	2.5
Estimated market value of land and buildings[1] $1,000	10.7	Livestock and poultry inventory:	
Market value of agricultural products sold $1,000	4.2	Cattle and calves ..... number	10.2
Harvested cropland ..... acres	6.1	Hogs and pigs ..... number	1.6
		Layers 20 weeks old and older ..... number	2.1

[1]Data are based on a sample of farms.

Table B. Reliability Estimates for Number of Farms in a County Reporting a Complete Count Item or Sample Count Item: 1997

Farms	Relative standard error of estimate (percent)	Farms	Relative standard error of estimate (percent)
COMPLETE COUNT ITEM		SAMPLE COUNT ITEM	
Number of farms reporting:		Number of farms reporting:	
25	6.4	25	39.3
50	4.3	50	28.0
75	3.3	75	23.0
100	2.7	100	20.0
150	2.0	150	16.6
200	1.4	200	14.5
300	.4	300	12.1
500	.3	500	9.8
750	.2	750	8.4
1,000	.2	1,000	7.6
1,500	.2	1,500	6.7
2,000	.1	2,000	6.2

Table C. **Reliability Estimates of State Totals for All Farms: 1997**

[For meaning of abbreviations and symbols, see introductory text]

Item	Total	Relative standard error of estimate (percent)
FARMS AND LAND IN FARMS		
Farms ..... number..	76 818	.7
Land in farms ..... acres..	11 122 363	.4
Average size of farm ..... acres..	145	.8
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD		
Total sales (see text) ..... farms..	76 818	.7
$1,000..	2 178 389	.2
Average per farm ..... dollars..	28 358	.7
Farms by value of sales:		
Less than $1,000 (see text) ..... farms..	13 298	1.2
$1,000..	3 412	1.3
$1,000 to $2,499 ..... farms..	13 903	1.0
$1,000..	23 445	1.0
$2,500 to $4,999 ..... farms..	14 578	.8
$1,000..	52 064	.8
$5,000 to $9,999 ..... farms..	13 751	.7
$1,000..	96 933	.7
$10,000 to $19,999 ..... farms..	9 265	.6
$1,000..	128 101	.6
$20,000 to $24,999 ..... farms..	1 952	1.0
$1,000..	43 260	1.0
$25,000 to $39,999 ..... farms..	2 950	.9
$1,000..	91 644	.9
$40,000 to $49,999 ..... farms..	1 037	1.2
$1,000..	45 919	1.2
$50,000 to $99,999 ..... farms..	2 176	.9
$1,000..	153 273	.9
$100,000 to $249,999 ..... farms..	2 070	.5
$1,000..	333 993	.4
$250,000 to $499,999 ..... farms..	1 068	–
$1,000..	375 013	–
$500,000 or more ..... farms..	770	–
$1,000..	831 332	–
Sales by commodity or commodity group:		
Crops, including nursery and greenhouse crops ..... farms..	33 610	.6
$1,000..	1 143 674	.2
Grains ..... farms..	6 755	.6
$1,000..	436 207	.2
Corn for grain ..... farms..	4 209	.6
$1,000..	145 227	.2
Wheat ..... farms..	2 313	.6
$1,000..	43 022	.2
Soybeans ..... farms..	4 913	.6
$1,000..	245 375	.2
Sorghum for grain ..... farms..	102	2.4
$1,000..	1 351	1.6
Barley ..... farms..	14	5.3
$1,000..	70	1.5
Oats ..... farms..	33	5.1
$1,000..	57	5.0
Other grains ..... farms..	42	4.0
$1,000..	1 104	2.8
Cotton and cottonseed ..... farms..	1 156	.7
$1,000..	207 709	.1
Tobacco ..... farms..	14 944	.6
$1,000..	188 584	.6
Hay, silage, and field seeds ..... farms..	13 699	.8
$1,000..	39 508	.7
Vegetables, sweet corn, and melons ..... farms..	1 149	1.1
$1,000..	49 478	.4
Fruits, nuts, and berries ..... farms..	496	1.7
$1,000..	5 792	1.5
Nursery and greenhouse crops ..... farms..	1 846	.9
$1,000..	213 365	.2
Other crops ..... farms..	309	1.9
$1,000..	3 032	2.2
Livestock, poultry, and their products ..... farms..	53 393	.7
$1,000..	1 034 714	.2
Poultry and poultry products ..... farms..	1 552	.9
$1,000..	293 222	.1
Dairy products ..... farms..	1 377	.7
$1,000..	209 378	.3
Cattle and calves ..... farms..	49 234	.6
$1,000..	426 261	.4
Hogs and pigs ..... farms..	1 579	.9
$1,000..	72 005	.3
Sheep, lambs, and wool ..... farms..	602	1.5
$1,000..	1 128	2.7
Other livestock and livestock products (see text) ..... farms..	5 103	1.0
$1,000..	32 721	1.0
Value of agricultural products sold directly to individuals for human consumption (see text) ..... farms..	2 294	1.0
$1,000..	7 643	1.1

Item	Total	Relative standard error of estimate (percent)
FARM PRODUCTION EXPENSES[1]		
Total farm production expenses ..... farms..	76 821	.7
$1,000..	1 641 727	.4
Average per farm ..... dollars..	21 371	.8
Livestock and poultry purchased ..... farms..	20 054	1.5
$1,000..	148 848	1.4
Feed for livestock and poultry ..... farms..	42 712	1.0
$1,000..	312 849	.5
Commercially mixed formula feeds ..... farms..	22 790	1.4
$1,000..	237 186	.5
Seeds, bulbs, plants, and trees ..... farms..	27 448	1.1
$1,000..	72 719	.8
Commercial fertilizer ..... farms..	51 727	.8
$1,000..	160 025	.7
Agricultural chemicals ..... farms..	26 800	1.2
$1,000..	94 026	.7
Petroleum products ..... farms..	71 483	.7
$1,000..	85 428	.7
Electricity ..... farms..	35 211	1.0
$1,000..	22 489	.9
Hired farm labor ..... farms..	22 550	1.3
$1,000..	159 187	.6
Contract labor ..... farms..	6 548	2.6
$1,000..	26 308	2.9
Repair and maintenance ..... farms..	56 816	.8
$1,000..	128 384	.9
Customwork, machine hire, and rental of machinery and equipment ..... farms..	17 082	1.6
$1,000..	29 042	1.6
Interest ..... farms..	22 345	1.4
$1,000..	113 698	1.3
Secured by real estate ..... farms..	16 791	1.7
$1,000..	83 523	1.6
Not secured by real estate ..... farms..	9 659	2.1
$1,000..	30 175	1.5
Cash rent ..... farms..	10 868	1.9
$1,000..	58 982	1.0
Property taxes ..... farms..	73 297	.7
$1,000..	64 228	1.0
All other farm production expenses ..... farms..	63 154	.8
$1,000..	165 514	.6
NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)[1]		
All farms ..... number..	76 821	.7
$1,000..	508 404	1.0
Average per farm ..... dollars..	6 618	1.2
Farms with net gains[2] ..... number..	36 480	.9
$1,000..	695 795	.6
Average net gain ..... dollars..	19 073	1.1
Farms with net losses ..... number..	40 341	1.1
$1,000..	187 391	1.5
Average net loss ..... dollars..	4 645	1.9
GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
Government payments ..... farms..	12 878	.6
$1,000..	46 345	.5
Other farm-related income[1] ..... farms..	20 654	1.5
$1,000..	54 541	2.9
Customwork and other agricultural services ..... farms..	4 358	3.5
$1,000..	19 024	4.9
Gross cash rent or share payments ..... farms..	6 481	2.9
$1,000..	17 617	4.6
Forest products, excluding Christmas trees and maple products ..... farms..	1 933	5.2
$1,000..	11 963	7.5
Other farm-related income sources ..... farms..	12 063	1.9
$1,000..	5 937	4.5
COMMODITY CREDIT CORPORATION LOANS		
Total ..... farms..	1 112	.9
$1,000..	45 063	.3

See footnotes at end of table.

Table C. **Reliability Estimates of State Totals for All Farms: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Item		Total	Relative standard error of estimate (percent)
LAND IN FARMS ACCORDING TO USE			
Total cropland	farms	69 393	.7
	acres	7 069 470	.4
Harvested cropland	farms	56 016	.6
	acres	4 064 058	.3
Farms by acres harvested:			
1 to 9 acres	farms	14 191	.8
	acres	56 347	.8
10 to 19 acres	farms	11 420	.8
	acres	150 588	.8
20 to 29 acres	farms	7 885	.7
	acres	178 436	.7
30 to 49 acres	farms	8 542	.7
	acres	310 210	.7
50 to 99 acres	farms	7 139	.6
	acres	465 391	.7
100 to 199 acres	farms	3 412	.7
	acres	445 511	.7
200 to 499 acres	farms	1 907	.7
	acres	561 162	.7
500 to 999 acres	farms	804	.4
	acres	552 787	.3
1,000 acres or more	farms	716	–
	acres	1 343 626	–
Cropland:			
Pasture or grazing only	farms	45 860	.7
	acres	2 445 224	.5
Other cropland	farms	14 716	.7
	acres	560 188	.7
Total woodland	farms	46 229	.7
	acres	2 613 402	.6
Pastureland and rangeland other than cropland and woodland pastured	farms	15 432	.7
	acres	984 097	.5
Land in house lots, ponds, roads, wasteland, etc.	farms	45 790	.7
	acres	455 394	.6
Irrigated land	farms	1 768	.9
	acres	45 581	.4
Acres irrigated:			
1 to 9 acres	farms	1 245	1.1
	acres	3 204	1.3
10 to 49 acres	farms	380	1.6
	acres	7 515	1.6
50 to 99 acres	farms	55	2.5
	acres	3 611	2.6
100 to 199 acres	farms	37	2.3
	acres	4 849	2.4
200 to 499 acres	farms	29	–
	acres	8 909	–
500 to 999 acres	farms	17	–
	acres	10 431	–
1,000 acres or more	farms	5	–
	acres	7 062	–
Harvested cropland irrigated	farms	1 666	.9
	acres	43 800	.4
Pasture and other land irrigated	farms	145	3.1
	acres	1 781	5.4
Land under Conservation Reserve or Wetlands Reserve Programs	farms	5 357	.9
	acres	335 299	1.0
VALUE OF LAND AND BUILDINGS[1]			
Estimated market value of land and buildings	farms	76 821	.7
	$1,000	20 066 329	.8
Average per farm	dollars	261 209	1.1
Average per acre	dollars	1 808	1.1
VALUE OF MACHINERY AND EQUIPMENT[1]			
Estimated market value of all machinery and equipment	farms	76 820	.7
	$1,000	2 547 208	.9
Average per farm	dollars	33 158	1.1
AGRICULTURAL CHEMICALS[1]			
Commercial fertilizer	farms	51 460	.8
	acres on which used	3 815 706	.8

Item		Total	Relative standard error of estimate (percent)
TENURE OF OPERATOR			
All operators	farms	76 818	.7
	acres	11 122 363	.4
Full owners	farms	54 072	.8
	acres	5 524 961	.6
Part owners	farms	18 600	.6
	acres	4 975 701	.3
Tenants	farms	4 146	.9
	acres	621 701	.7
OWNED AND RENTED LAND			
Land owned	farms	72 775	.7
	acres	8 249 396	.5
Owned land in farms	farms	72 672	.7
	acres	7 660 877	.5
Land rented or leased from others	farms	22 952	.6
	acres	3 520 747	.4
	landlords	51 195	.5
Rented or leased land in farms	farms	22 746	.6
	acres	3 461 486	.3
Land rented or leased to others	farms	8 003	.7
	acres	647 780	1.2
OPERATOR CHARACTERISTICS			
Operators by place of residence:			
On farm operated		56 710	.7
Not on farm operated		14 293	.8
Not reported		5 815	.8
Operators by principal occupation:			
Farming		27 680	.5
Other		49 138	.8
Operators by days worked off farm:			
Any		47 484	.8
200 days or more		35 678	.8
Operators by sex:			
Male	farms	69 920	.7
	acres	10 415 358	.4
Female	farms	6 898	.9
	acres	707 005	.9
Average age of operator	years	55.4	1.0
FARMS BY TYPE OF ORGANIZATION			
Individual or family (sole proprietorship)	farms	69 585	.7
	acres	8 980 138	.5
Partnership	farms	6 275	.8
	acres	1 752 792	.5
Corporation:			
Family held	farms	553	1.3
	acres	261 909	.7
More than 10 stockholders	farms	11	9.8
10 or less stockholders	farms	542	1.3
Other than family held	farms	128	2.7
	acres	40 894	2.1
More than 10 stockholders	farms	8	4.3
10 or less stockholders	farms	120	2.9
Other—cooperative, estate or trust, institutional, etc.	farms	277	2.1
	acres	86 630	1.4
HIRED FARM LABOR[1]			
Hired workers by days worked:			
150 days or more	farms	6 096	2.4
	workers	12 036	1.6
Less than 150 days	farms	21 552	1.4
	workers	65 697	1.9
INJURIES AND DEATHS			
Farm-related injuries:			
Operator and family members	farms	532	1.5
	number	578	1.6
Hired workers	farms	180	1.8
	number	285	1.6
Farm-related deaths:			
Operator and family members	farms	23	–
	number	31	–
Hired workers	farms	5	–
	number	5	–

See footnotes at end of table.

Table C. **Reliability Estimates of State Totals for All Farms: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Item		Total	Relative standard error of estimate (percent)
FARMS BY SIZE			
1 to 9 acres	farms	5 919	1.0
	acres	27 248	1.1
10 to 49 acres	farms	24 401	.9
	acres	669 183	.9
50 to 69 acres	farms	8 337	.8
	acres	484 172	.8
70 to 99 acres	farms	8 888	.8
	acres	737 477	.8
100 to 139 acres	farms	8 310	.7
	acres	963 743	.7
140 to 179 acres	farms	5 184	.7
	acres	812 448	.7
180 to 219 acres	farms	3 560	.8
	acres	703 383	.8
220 to 259 acres	farms	2 429	.9
	acres	579 063	.9
260 to 499 acres	farms	5 935	.7
	acres	2 067 102	.7
500 to 999 acres	farms	2 544	.7
	acres	1 703 049	.7
1,000 to 1,999 acres	farms	945	–
	acres	1 248 311	–
2,000 acres or more	farms	366	–
	acres	1 127 184	–
FARMS BY NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM			
Oilseed and grain farming (1111)	farms	6 274	.8
	acres	2 351 495	.4
Vegetable and melon farming (1112)	farms	592	1.5
	acres	69 361	1.2
Fruit and tree nut farming (1113)	farms	459	1.9
	acres	35 821	2.2
Greenhouse, nursery, and floriculture production (1114)	farms	1 528	1.0
	acres	123 504	1.0
Other crop farming (1119)	farms	19 403	.7
	acres	2 571 447	.5
Beef cattle ranching and farming (112111)	farms	39 017	.7
	acres	4 921 521	.6
Cattle feedlots (112112)	farms	1 183	1.3
	acres	120 964	1.5
Dairy cattle and milk production (11212)	farms	1 183	.7
	acres	410 818	.4
Hog and pig farming (1122)	farms	751	1.3
	acres	109 662	1.1
Poultry and egg production (1123)	farms	875	.9
	acres	83 126	.7
Sheep and goat farming (1124)	farms	560	1.9
	acres	29 319	2.6
Animal aquaculture and other animal production (1125, 1129)	farms	4 993	1.2
	acres	295 325	1.2
LIVESTOCK			
Cattle and calves inventory	farms	51 089	.7
	number	2 145 405	.5
Beef cows	farms	44 235	.7
	number	1 039 583	.5
Milk cows	farms	2 096	.7
	number	111 985	.3
Cattle and calves sold	farms	49 234	.6
	number	1 126 232	.5
	$1,000	426 261	.4
Hogs and pigs inventory	farms	2 043	.9
	number	321 806	.4
Hogs and pigs sold	farms	1 579	.9
	number	714 999	.3
	$1,000	72 005	.3
Sheep and lambs of all ages inventory	farms	773	1.4
	number	13 773	2.2
Sheep and lambs sold	farms	537	1.6
	number	18 641	2.2
Horses and ponies inventory	farms	15 310	.9
	number	89 017	.9
Horses and ponies sold	farms	3 366	1.1
	number	12 724	1.2
POULTRY			
Layers and pullets 13 weeks old and older inventory (see text)	farms	2 657	1.1
	number	2 221 215	1.4
Layers 20 weeks old and older	farms	2 525	1.1
	number	1 654 134	1.0
Broilers and other meat-type chickens sold	farms	548	.7
	number	120 830 210	.1
SELECTED CROPS HARVESTED			
Corn for grain or seed	farms	5 854	.6
	acres	575 878	.3
	bushels	58 459 483	.2
Corn for silage or green chop	farms	1 253	.7
	acres	68 482	.3
	tons, green	958 535	.3
Wheat for grain	farms	2 360	.6
	acres	305 175	.2
	bushels	13 482 402	.2
Cotton	farms	1 156	.7
	acres	472 165	.2
	bales	629 487	.2
Tobacco	farms	14 995	.6
	acres	59 427	.6
	pounds	106 785 282	.6
Soybeans for beans	farms	4 926	.6
	acres	1 156 282	.2
	bushels	37 976 452	.2
Potatoes, excluding sweetpotatoes	farms	376	1.8
	acres	611	3.0
	cwt	83 064	2.8
Sweetpotatoes	farms	78	3.5
	acres	424	3.8
	bushels	115 693	3.0
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)	farms	44 161	.6
	acres	1 646 290	.5
	tons, dry	3 326 031	.5
Alfalfa hay	farms	2 734	.8
	acres	38 346	.9
	tons, dry	107 949	.9
Vegetables harvested for sale (see text)	farms	1 162	1.1
	acres	34 609	.4
Land in orchards	farms	1 043	1.4
	acres	4 427	1.7

[1]Data are based on a sample of farms.
[2]Farms with total production expenses equal to market value of agricultural products sold are included as farms with gains.

Table D. Reliability Estimates of State Totals for Farms With Sales of $10,000 or More: 1997

[For meaning of abbreviations and symbols, see introductory text]

Item	Total	Relative standard error of estimate (percent)
FARMS AND LAND IN FARMS		
Farms ..... number..	21 288	.5
Land in farms ..... acres..	6 704 439	.3
Average size of farm ..... acres..	315	.6
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD		
Total sales (see text) ..... farms..	21 288	.5
$1,000..	2 002 535	.2
Average per farm ..... dollars..	94 069	.5
Farms by value of sales:		
$10,000 to $19,999 ..... farms..	9 265	.6
$1,000..	128 101	.6
$20,000 to $24,999 ..... farms..	1 952	1.0
$1,000..	43 260	1.0
$25,000 to $39,999 ..... farms..	2 950	.9
$1,000..	91 644	.9
$40,000 to $49,999 ..... farms..	1 037	1.1
$1,000..	45 919	1.1
$50,000 to $99,999 ..... farms..	2 176	.9
$1,000..	153 273	.9
$100,000 to $249,999 ..... farms..	2 070	.5
$1,000..	333 993	.3
$250,000 to $499,999 ..... farms..	1 068	–
$1,000..	375 013	–
$500,000 or more ..... farms..	770	–
$1,000..	831 332	–
Sales by commodity or commodity group:		
Crops, including nursery and greenhouse crops ..... farms..	14 441	.5
$1,000..	1 088 032	.2
Grains ..... farms..	5 076	.5
$1,000..	430 947	.2
Corn for grain ..... farms..	3 350	.6
$1,000..	143 199	.2
Wheat ..... farms..	2 105	.6
$1,000..	42 713	.2
Soybeans ..... farms..	4 025	.5
$1,000..	242 474	.2
Sorghum for grain ..... farms..	89	2.3
$1,000..	1 336	1.5
Barley ..... farms..	12	4.8
$1,000..	(D)	(D)
Oats ..... farms..	27	5.2
$1,000..	(D)	(D)
Other grains ..... farms..	37	3.7
$1,000..	1 102	2.9
Cotton and cottonseed ..... farms..	1 054	.5
$1,000..	207 266	.1
Tobacco ..... farms..	6 967	.6
$1,000..	160 067	.6
Hay, silage, and field seeds ..... farms..	4 080	.7
$1,000..	21 988	.8
Vegetables, sweet corn, and melons ..... farms..	668	1.2
$1,000..	48 528	.4
Fruits, nuts, and berries ..... farms..	177	2.2
$1,000..	5 320	1.5
Nursery and greenhouse crops ..... farms..	1 093	.9
$1,000..	211 170	.2
Other crops ..... farms..	135	2.4
$1,000..	2 747	2.4
Livestock, poultry, and their products ..... farms..	16 296	.5
$1,000..	914 503	.2
Poultry and poultry products ..... farms..	788	.7
$1,000..	292 771	.1
Dairy products ..... farms..	1 296	.6
$1,000..	209 145	.2
Cattle and calves ..... farms..	15 203	.5
$1,000..	315 666	.4
Hogs and pigs ..... farms..	905	1.0
$1,000..	70 483	.3
Sheep, lambs, and wool ..... farms..	171	2.3
$1,000..	750	3.7
Other livestock and livestock products (see text) ..... farms..	1 215	1.0
$1,000..	25 687	1.0
Value of agricultural products sold directly to individuals for human consumption (see text) ..... farms..	709	1.2
$1,000..	5 818	1.3
FARM PRODUCTION EXPENSES[1]		
Total farm production expenses ..... farms..	21 241	.5
$1,000..	1 375 932	.4
Average per farm ..... dollars..	64 777	.7
Livestock and poultry purchased ..... farms..	7 860	2.0
$1,000..	125 546	1.5
Feed for livestock and poultry ..... farms..	13 609	1.2
$1,000..	284 125	.5
Commercially mixed formula feeds ..... farms..	8 291	1.9
$1,000..	226 687	.5
Seeds, bulbs, plants, and trees ..... farms..	13 433	1.2
$1,000..	69 083	.8
Commercial fertilizer ..... farms..	18 432	.8
$1,000..	134 255	.8
Agricultural chemicals ..... farms..	12 669	1.3
$1,000..	90 330	.7
Petroleum products ..... farms..	21 038	.5
$1,000..	63 609	.8
Electricity ..... farms..	14 363	1.2
$1,000..	17 592	.9
Hired farm labor ..... farms..	11 006	1.5
$1,000..	151 825	.6
Contract labor ..... farms..	3 579	3.1
$1,000..	24 061	3.1
Repair and maintenance ..... farms..	19 110	.7
$1,000..	91 061	.9
Customwork, machine hire, and rental of machinery and equipment ..... farms..	7 119	2.1
$1,000..	22 859	1.7
Interest ..... farms..	9 764	1.6
$1,000..	79 535	1.3
Secured by real estate ..... farms..	6 829	2.1
$1,000..	53 362	1.7
Not secured by real estate ..... farms..	5 445	2.4
$1,000..	26 174	1.5
Cash rent ..... farms..	6 459	2.2
$1,000..	55 726	1.0
Property taxes ..... farms..	20 234	.6
$1,000..	28 928	1.3
All other farm production expenses ..... farms..	21 234	.5
$1,000..	137 395	.7
NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)[1]		
All farms ..... number..	21 241	.5
$1,000..	597 636	.8
Average per farm ..... dollars..	28 136	.9
Farms with net gains[2] ..... number..	16 848	.9
$1,000..	654 672	.6
Average net gain ..... dollars..	38 858	1.1
Farms with net losses ..... number..	4 393	2.9
$1,000..	57 036	2.8
Average net loss ..... dollars..	12 983	4.1
GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
Government payments ..... farms..	5 821	.5
$1,000..	32 032	.3
Other farm-related income[1] ..... farms..	7 722	2.1
$1,000..	30 360	4.0
Customwork and other agricultural services ..... farms..	1 751	5.2
$1,000..	12 735	6.9
Gross cash rent or share payments ..... farms..	1 646	5.3
$1,000..	7 055	7.6
Forest products, excluding Christmas trees and maple products ..... farms..	679	8.0
$1,000..	5 622	10.1
Other farm-related income sources ..... farms..	5 657	2.5
$1,000..	4 948	5.1
COMMODITY CREDIT CORPORATION LOANS		
Total ..... farms..	927	.8
$1,000..	44 783	.3

See footnotes at end of table.

Table D. Reliability Estimates of State Totals for Farms With Sales of $10,000 or More: 1997—Con.

[For meaning of abbreviations and symbols, see introductory text]

Item		Total	Relative standard error of estimate (percent)
LAND IN FARMS ACCORDING TO USE			
Total cropland	farms	20 451	.5
	acres	4 798 392	.3
Harvested cropland	farms	19 211	.5
	acres	3 293 409	.2
Cropland:			
Pasture or grazing only	farms	13 267	.5
	acres	1 267 454	.5
Total woodland	farms	13 503	.5
	acres	1 145 784	.5
Pastureland and rangeland other than cropland and woodland pastured	farms	4 483	.6
	acres	560 310	.5
Land in house lots, ponds, roads, wasteland, etc.	farms	12 696	.5
	acres	199 953	.5
Irrigated land	farms	1 103	.9
	acres	41 461	.3
Harvested cropland irrigated	farms	1 088	.9
	acres	40 918	.3
Pasture and other land irrigated	farms	33	4.7
	acres	543	7.4
Land under Conservation Reserve or Wetlands Reserve Programs	farms	1 385	.8
	acres	112 768	.9
VALUE OF LAND AND BUILDINGS[1]			
Estimated market value of land and buildings	farms	21 241	.5
	$1,000	10 550 027	1.0
Average per farm	dollars	496 682	1.1
Average per acre	dollars	1 572	1.3
VALUE OF MACHINERY AND EQUIPMENT[1]			
Estimated market value of all machinery and equipment	farms	21 240	.5
	$1,000	1 364 751	1.1
Average per farm	dollars	64 254	1.2
AGRICULTURAL CHEMICALS[1]			
Commercial fertilizer	farms	18 415	.8
	acres on which used	3 030 215	.9
TENURE OF OPERATOR			
All operators	farms	21 288	.5
	acres	6 704 439	.3
Full owners	farms	10 817	.6
	acres	2 281 095	.5
Part owners	farms	8 947	.5
	acres	3 975 958	.3
Tenants	farms	1 524	1.1
	acres	447 386	.7
OWNED AND RENTED LAND			
Land owned	farms	19 805	.5
	acres	4 177 885	.4
Owned land in farms	farms	19 764	.5
	acres	3 941 619	.4
Land rented or leased from others	farms	10 526	.5
	acres	2 796 972	.3
	landlords	31 211	.4
Rented or leased land in farms	farms	10 471	.5
	acres	2 762 820	.3
Land rented or leased to others	farms	2 376	.8
	acres	270 418	2.3
OPERATOR CHARACTERISTICS			
Operators by place of residence:			
On farm operated		15 694	.5
Not on farm operated		3 941	.8
Not reported		1 653	.7
Operators by principal occupation:			
Farming		12 589	.5
Other		8 699	.6
Operators by days worked off farm:			
Any		10 481	.6
200 days or more		6 863	.6
Operators by sex:			
Male		20 056	.5
Female		1 232	1.1
Average age of operator	years	55.0	.7

Item		Total	Relative standard error of estimate (percent)
FARMS BY TYPE OF ORGANIZATION			
Individual or family (sole proprietorship)	farms	17 933	.5
	acres	4 995 091	.4
Partnership	farms	2 869	.8
	acres	1 384 148	.4
Corporation:			
Family held	farms	342	1.2
	acres	228 945	.5
More than 10 stockholders	farms	7	9.1
10 or less stockholders	farms	335	1.2
Other than family held	farms	59	3.1
	acres	30 691	2.4
More than 10 stockholders	farms	6	–
10 or less stockholders	farms	53	3.4
Other—cooperative, estate or trust, institutional, etc.	farms	85	3.0
	acres	65 564	1.2
HIRED FARM LABOR[1]			
Hired workers by days worked:			
150 days or more	farms	3 976	2.5
	workers	9 837	1.5
Less than 150 days	farms	10 068	1.6
	workers	38 081	2.5
INJURIES AND DEATHS			
Farm-related injuries:			
Operator and family members	farms	202	2.0
	number	222	2.0
Hired workers	farms	148	1.7
	number	243	1.3
Farm-related deaths:			
Operator and family members	farms	9	–
	number	(D)	(D)
Hired workers	farms	2	–
	number	(D)	(D)
FARMS BY SIZE			
1 to 9 acres		797	1.3
10 to 49 acres		2 478	.8
50 to 69 acres		1 276	1.0
70 to 99 acres		1 952	.9
100 to 139 acres		2 385	.8
140 to 179 acres		2 051	.8
180 to 219 acres		1 661	.9
220 to 259 acres		1 298	1.0
260 to 499 acres		3 969	.7
500 to 999 acres		2 167	.6
1,000 to 1,999 acres		896	–
2,000 acres or more		358	–
FARMS BY NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM			
Oilseed and grain farming (1111)		2 823	.6
Vegetable and melon farming (1112)		278	1.7
Fruit and tree nut farming (1113)		72	3.5
Greenhouse, nursery, and floriculture production (1114)		912	1.0
Other crop farming (1119)		6 017	.7
Beef cattle ranching and farming (112111)		8 120	.6
Cattle feedlots (112112)		374	1.7
Dairy cattle and milk production (11212)		1 138	.7
Hog and pig farming (1122)		358	1.4
Poultry and egg production (1123)		620	.6
Sheep and goat farming (1124)		30	6.2
Animal aquaculture and other animal production (1125, 1129)		546	1.4
LIVESTOCK			
Cattle and calves inventory	farms	14 904	.5
	number	1 334 161	.4
Beef cows	farms	12 718	.5
	number	594 058	.5
Milk cows	farms	1 387	.7
	number	109 660	.3
Cattle and calves sold	farms	15 203	.5
	number	781 828	.4
	$1,000	315 666	.4
Hogs and pigs inventory	farms	935	1.0
	number	309 521	.4
Hogs and pigs sold	farms	905	1.0
	number	696 122	.3
	$1,000	70 483	.3
Sheep and lambs of all ages inventory	farms	192	2.2
	number	4 925	3.7
Sheep and lambs sold	farms	161	2.4
	number	13 384	2.7
Horses and ponies inventory	farms	3 207	.7
	number	25 070	1.1
Horses and ponies sold	farms	865	1.1
	number	6 990	1.5

See footnotes at end of table.

Table D. Reliability Estimates of State Totals for Farms With Sales of $10,000 or More: 1997—Con.

[For meaning of abbreviations and symbols, see introductory text]

Item		Total	Relative standard error of estimate (percent)
POULTRY			
Layers and pullets 13 weeks old and older inventory (see text)	farms	515	1.3
	number	2 174 457	1.3
Layers 20 weeks old and older	farms	478	1.3
	number	1 615 181	.9
Broilers and other meat-type chickens sold	farms	497	.6
	number	120 827 889	.1
SELECTED CROPS HARVESTED			
Corn for grain or seed	farms	4 197	.5
	acres	558 253	.2
	bushels	57 343 084	.2
Corn for silage or green chop	farms	1 088	.6
	acres	66 333	.3
	tons, green	932 925	.3
Wheat for grain	farms	2 132	.6
	acres	301 621	.2
	bushels	13 368 289	.2
SELECTED CROPS HARVESTED—Con.			
Cotton	farms	1 054	.5
	acres	470 587	.2
	bales	628 008	.1
Tobacco	farms	6 970	.6
	acres	47 252	.6
	pounds	89 378 905	.6
Soybeans for beans	farms	4 028	.5
	acres	1 135 094	.2
	bushels	37 476 439	.2
Potatoes, excluding sweetpotatoes	farms	127	2.7
	acres	373	3.9
	cwt	54 243	3.7
Sweetpotatoes	farms	48	4.0
	acres	375	3.3
	bushels	107 877	2.8
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)	farms	13 958	.5
	acres	930 090	.5
	tons, dry	2 037 607	.5
Alfalfa hay	farms	1 376	.8
	acres	25 417	1.0
	tons, dry	77 345	1.0
Vegetables harvested for sale (see text)	farms	672	1.2
	acres	33 448	.4
Land in orchards	farms	191	2.2
	acres	2 016	2.3

[1]Data are based on a sample of farms.
[2]Farms with total production expenses equal to market value of agricultural products sold are included as farms with gains.

Table E. **Reliability Estimates of Percent Change in State Totals: 1992 to 1997**

[For meaning of abbreviations and symbols, see introductory text]

Item	All farms		Farms with sales of $10,000 or more	
	Percent change from 1992 to 1997	Standard error of estimate	Percent change from 1992 to 1997	Standard error of estimate
Farms ..... number	2.3	1.3	–12.6	1.2
Land in farms ..... acres	–.4	1.0	–7.6	.9
Average size of farm ..... acres	–2.7	1.5	5.7	1.7
Estimated market value of land and buildings[1]:				
Average per farm ..... dollars	40.3	2.6	50.3	3.3
Average per acre ..... dollars	45.2	2.8	41.5	3.0
Estimated market value of all machinery and equipment[1]:				
Average per farm ..... dollars	29.9	2.4	29.0	2.8
Farms by size:				
1 to 9 acres	–19.3	1.3	–25.7	1.4
10 to 49 acres	10.0	1.5	–17.0	1.2
50 to 179 acres	3.9	.9	–15.4	.9
180 to 499 acres	.4	1.1	–7.7	1.1
500 to 999 acres	–6.0	1.1	–8.6	1.0
1,000 to 1,999 acres	–11.0	–	–11.2	–
2,000 acres or more	3.7	–	3.5	–
Total cropland ..... farms	.1	1.2	–13.1	1.2
acres	–.2	.9	–4.9	.8
Harvested cropland ..... farms	–4.3	1.1	–13.6	1.2
acres	6.5	.8	3.1	.7
Irrigated land ..... farms	14.5	1.6	25.9	1.8
acres	23.3	.8	21.7	.7
Market value of agricultural products sold $1,000	12.7	.6	14.3	.6
Average per farm ..... dollars	10.1	1.5	30.8	1.9
Crops, including nursery and greenhouse crops $1,000	18.0	.6	21.3	.6
Livestock, poultry, and their products $1,000	7.3	.6	7.1	.6
Farms by value of sales:				
Less than $2,500	26.8	1.7	(X)	(X)
$2,500 to $4,999	1.5	1.3	(X)	(X)
$5,000 to $9,999	–7.8	1.2	(X)	(X)
$10,000 to $24,999	–14.3	1.2	–14.3	1.2
$25,000 to $49,999	–14.1	1.4	–14.1	1.4
$50,000 to $99,999	–18.8	1.4	–18.8	1.4
$100,000 to $249,999	–13.8	.4	–13.8	.4
$250,000 to $499,999	2.1	–	2.1	–
$500,000 or more	57.5	–	57.5	–
Total farm production expenses[1] $1,000	10.0	1.0	8.8	.9
Average per farm ..... dollars	7.5	1.5	24.1	2.0
Net cash return from agricultural sales for the farm unit (see text)[1] ..... farms	2.3	1.2	–12.3	1.3
$1,000	20.5	1.9	28.0	1.6
Average per farm ..... dollars	17.7	2.3	46.0	2.8
Operators by principal occupation:				
Farming	–7.4	1.1	–14.4	1.1
Other	8.7	1.4	–9.8	1.3
Operators by days worked off farm:				
Any	6.6	1.4	–10.8	1.3
200 days or more	6.9	1.4	–12.6	1.3
Livestock and poultry:				
Cattle and calves inventory ..... farms	1.0	1.2	–13.5	1.2
number	–.8	1.1	–6.2	1.1
Beef cows ..... farms	2.1	1.3	–10.9	1.4
number	5.2	1.4	.1	1.4
Milk cows ..... farms	–36.4	.7	–41.6	.6
number	–26.4	.3	–26.7	.3
Cattle and calves sold ..... farms	2.7	1.3	–12.5	1.3
number	7.9	1.2	2.9	1.1
Hogs and pigs inventory ..... farms	–58.4	.7	–62.6	.7
number	–46.8	.4	–44.8	.4
Hogs and pigs sold ..... farms	–65.1	.6	–63.8	.6
number	–44.7	.4	–42.1	.4
Sheep and lambs inventory ..... farms	3.2	2.3	–16.5	2.7
number	–25.1	2.2	–45.1	2.4
Layers and pullets 13 weeks old and older inventory (see text) ..... farms	–20.2	1.3	–30.5	1.5
number	16.5	2.0	17.8	2.0
Broilers and other meat-type chickens sold ..... farms	12.1	1.2	10.2	1.0
number	22.6	.3	22.7	.3
Selected crops harvested:				
Corn for grain or seed ..... farms	–36.0	.8	–30.9	.9
acres	–4.9	.6	–2.5	.6
bushels	–13.7	.5	–12.2	.5
Wheat for grain ..... farms	–21.6	1.0	–19.3	1.0
acres	10.5	.5	11.5	.5
bushels	10.7	.5	11.5	.5
Cotton ..... farms	–45.9	.7	–40.4	.7
acres	–21.2	.3	–20.5	.2
bales	–20.6	.2	–20.2	.2
Tobacco ..... farms	–34.7	.8	–30.8	1.0
acres	–21.4	.9	–15.2	1.1
pounds	–23.4	.9	–17.6	1.1
Soybeans for beans ..... farms	–5.8	1.2	–5.4	1.1
acres	26.3	.6	27.3	.6
bushels	25.3	.6	26.2	.6
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) ..... farms	9.0	1.4	–8.7	1.3
acres	16.7	1.4	6.8	1.4
tons, dry	27.1	1.5	16.2	1.4

[1]Data are based on a sample of farms.

Table F. **Reliability Estimates for the State and County Totals: 1997**

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Farms		Land in farms		Average size of farm		Average market value of land and buildings per farm[1]		Estimated market value of all machinery and equipment[1]	
	Total (number)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Tennessee	**76 818**	**.7**	**11 122 363**	**.4**	**145**	**.8**	**261 209**	**1.1**	**2 547 208**	**.9**
Anderson	462	.9	40 928	1.8	89	2.0	353 402	12.4	13 371	13.7
Bedford	1 408	.7	207 434	.8	147	1.1	225 003	4.8	47 556	7.1
Benton	433	.8	68 931	1.3	159	1.5	189 457	11.8	11 553	16.4
Bledsoe	525	.7	95 876	1.3	183	1.5	238 891	5.9	19 241	6.8
Blount	1 053	.7	93 209	1.0	89	1.2	340 924	6.2	31 052	6.3
Bradley	781	.7	90 067	1.1	115	1.3	299 738	5.0	26 938	5.1
Campbell	398	.8	30 683	1.9	77	2.1	129 146	8.8	10 606	11.9
Cannon	754	.8	102 762	1.1	136	1.3	194 699	8.6	22 014	8.2
Carroll	851	.8	171 660	.9	202	1.2	244 830	6.2	29 601	6.0
Carter	622	.7	38 894	1.7	63	1.8	148 692	10.9	13 362	9.8
Cheatham	556	.7	68 158	1.6	123	1.7	292 618	8.6	13 727	8.3
Chester	410	.8	73 112	1.3	178	1.6	152 661	8.6	10 167	6.9
Claiborne	1 397	.8	143 971	1.1	103	1.4	134 153	5.8	32 719	8.2
Clay	503	.6	71 606	1.3	142	1.4	169 171	8.4	9 732	7.0
Cocke	886	.6	75 222	1.1	85	1.3	192 748	7.6	21 006	7.1
Coffee	968	.6	135 615	.8	140	1.1	268 079	5.0	31 665	5.7
Crockett	380	.6	150 600	.4	396	.7	566 760	2.8	37 609	4.4
Cumberland	726	.7	100 352	1.1	138	1.3	254 665	4.4	23 816	6.8
Davidson	533	1.3	52 248	2.0	98	2.4	370 641	12.8	16 785	8.5
Decatur	437	.8	88 399	1.3	202	1.5	195 928	6.2	11 659	12.4
De Kalb	806	.8	99 160	1.2	123	1.5	212 495	7.1	20 066	7.1
Dickson	1 106	.8	148 565	1.1	134	1.3	255 303	5.9	37 941	6.7
Dyer	526	.5	234 181	.4	445	.7	569 718	4.3	47 518	3.8
Fayette	716	.7	270 666	.5	378	.9	552 651	4.7	44 732	2.7
Fentress	504	.8	70 174	1.4	139	1.6	220 017	7.1	13 901	8.4
Franklin	985	.7	131 976	.9	134	1.1	258 760	5.0	36 445	6.2
Gibson	874	.5	278 080	.4	318	.6	404 227	2.5	72 379	4.1
Giles	1 570	.6	249 257	.7	159	.9	198 501	3.9	42 817	5.4
Grainger	1 095	.6	96 842	1.1	88	1.2	162 451	6.2	27 826	4.7
Greene	3 086	.5	225 676	.7	73	.9	176 864	3.4	87 324	4.2
Grundy	337	.7	36 274	2.1	108	2.2	177 036	11.5	8 536	6.7
Hamblen	667	.6	51 996	1.4	78	1.6	261 293	7.0	23 131	10.2
Hamilton	604	1.1	56 822	1.7	94	2.0	317 540	10.6	16 317	9.4
Hancock	633	.6	67 844	1.3	107	1.4	117 124	9.3	11 980	8.0
Hardeman	559	1.0	166 241	.9	297	1.3	287 004	5.5	17 675	6.4
Hardin	594	.6	115 598	1.0	195	1.2	242 379	9.1	16 197	6.3
Hawkins	1 813	.6	146 888	.9	81	1.0	166 411	4.6	45 409	4.0
Haywood	360	.6	211 984	.5	589	.8	684 217	1.5	41 705	2.4
Henderson	858	.8	152 034	1.1	177	1.3	227 785	8.1	27 494	7.2
Henry	831	.6	185 304	.7	223	.9	265 445	4.1	37 936	6.4
Hickman	678	.7	127 829	1.0	189	1.2	232 534	6.1	17 481	7.5
Houston	289	.6	48 735	1.6	169	1.7	221 904	11.6	10 553	11.5
Humphreys	577	.8	121 983	1.0	211	1.3	250 306	5.8	20 664	5.6
Jackson	605	.9	83 243	1.5	138	1.7	145 115	7.1	11 677	10.8
Jefferson	1 147	.5	98 067	.8	85	1.0	241 070	6.6	33 482	5.0
Johnson	679	.6	49 475	1.6	73	1.6	174 458	9.5	15 898	8.5
Knox	1 193	.9	87 809	1.2	74	1.5	278 917	7.7	33 158	6.0
Lake	80	.6	89 635	.4	1 120	.7	1 654 805	2.8	18 156	.7
Lauderdale	505	.7	192 010	.5	380	.9	438 746	3.2	43 236	8.5
Lawrence	1 617	.8	214 001	1.0	132	1.3	199 148	5.8	51 300	6.1
Lewis	222	.7	36 801	1.3	166	1.5	229 030	5.3	7 025	8.6
Lincoln	1 661	.7	276 119	.8	166	1.0	227 671	3.6	56 419	5.2
Loudon	763	.7	73 976	1.2	97	1.4	328 926	9.5	33 491	7.5
McMinn	1 074	.7	127 322	.9	119	1.2	238 247	4.8	30 626	4.2
McNairy	720	.8	130 146	1.1	181	1.4	149 299	6.3	21 918	6.1
Macon	1 238	.6	135 028	1.0	109	1.2	170 689	6.3	29 011	5.3
Madison	571	1.0	145 586	.8	255	1.3	282 805	3.8	33 046	4.3
Marion	294	1.0	51 060	1.5	174	1.9	253 739	6.6	10 621	7.5
Marshall	1 097	.8	166 840	.9	152	1.2	243 687	6.8	31 250	5.4
Maury	1 532	.7	242 575	.8	158	1.1	295 200	4.7	40 816	5.6
Meigs	339	.7	48 977	1.4	144	1.5	206 131	7.6	9 058	7.0
Monroe	855	.7	96 929	1.1	113	1.3	278 521	5.6	27 822	6.2
Montgomery	988	.6	164 575	.9	167	1.1	317 583	6.2	31 567	4.5
Moore	371	.5	52 065	1.3	140	1.4	229 847	7.4	11 684	6.4
Morgan	328	.7	45 997	1.3	140	1.5	266 239	9.4	11 378	10.8
Obion	705	.5	242 251	.4	344	.7	487 438	3.7	54 738	8.3
Overton	889	.8	109 404	1.2	123	1.5	171 433	7.6	18 749	6.7
Perry	235	.7	54 390	1.3	231	1.5	253 818	16.5	6 923	12.9
Pickett	374	.7	37 499	1.9	100	2.1	184 098	13.1	6 281	9.0
Polk	255	1.0	32 122	1.6	126	1.8	362 012	8.6	11 259	11.4
Putnam	1 120	.9	112 122	1.3	100	1.6	231 527	6.7	26 083	7.2
Rhea	404	.7	56 049	1.5	139	1.7	222 587	9.6	12 638	8.1
Roane	539	.6	53 110	1.5	99	1.6	254 735	8.8	15 069	6.8
Robertson	1 474	.7	236 385	.8	160	1.1	340 491	4.6	65 711	5.5
Rutherford	1 591	.9	195 295	.9	123	1.2	294 331	5.1	38 005	6.0
Scott	228	1.2	29 746	2.1	130	2.4	182 719	11.8	5 156	8.8
Sequatchie	169	.8	25 557	2.2	151	2.4	251 111	5.4	4 730	4.4
Sevier	801	.7	71 677	1.3	89	1.5	354 631	9.2	20 558	7.6
Shelby	683	1.2	128 132	1.0	188	1.6	621 200	4.9	28 865	7.0
Smith	1 045	.6	138 256	.9	132	1.1	215 183	7.2	25 244	6.9
Stewart	350	.6	56 517	1.5	161	1.6	230 901	8.6	8 128	12.6
Sullivan	1 315	.7	86 402	1.0	66	1.2	239 872	6.9	32 137	6.7
Sumner	1 703	.7	181 570	.9	107	1.2	279 926	6.0	52 054	4.4
Tipton	592	.8	169 788	.6	287	1.0	373 699	3.6	40 713	5.8

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Farms		Land in farms		Average size of farm		Average market value of land and buildings per farm[1]		Estimated market value of all machinery and equipment[1]	
	Total (number)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Trousdale	405	.8	51 638	1.6	128	1.8	239 526	15.2	16 271	11.2
Unicoi	155	.8	7 501	3.7	48	3.8	186 386	12.5	3 017	9.2
Union	544	.7	51 290	1.8	94	1.9	164 329	12.4	10 797	7.2
Van Buren	228	.7	31 675	2.4	139	2.5	194 024	13.9	5 238	8.3
Warren	1 347	.6	162 041	.8	120	1.0	226 993	3.7	53 053	4.0
Washington	1 807	.6	119 670	.8	66	1.1	277 634	5.7	54 559	4.4
Wayne	700	.8	130 012	1.1	186	1.4	178 077	7.5	14 386	7.8
Weakley	1 010	.5	222 524	.5	220	.7	272 149	5.4	52 820	9.9
White	1 034	.7	119 077	1.1	115	1.3	216 590	6.3	28 092	7.3
Williamson	1 410	.7	197 934	.9	140	1.2	476 148	5.3	42 621	5.1
Wilson	1 676	.7	210 657	.8	126	1.1	293 796	6.0	40 470	5.5

Geographic area	Average market value of all machinery and equipment per farm[1]		Market value of agricultural products sold		Average market value of agricultural products sold per farm		Farm production expenses[1]			
							Total farm production expenses			
							Farms		Value	
	Value (dollars)	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Tennessee	**33 158**	**1.1**	**2 178 389**	**.2**	**28 358**	**.7**	**76 821**	**.7**	**1 641 727**	**.4**
Anderson	28 942	13.8	5 474	1.6	11 849	1.9	462	1.1	4 445	12.3
Bedford	33 775	7.1	69 049	.3	49 041	.8	1 408	.8	58 779	1.1
Benton	26 744	16.4	4 364	1.8	10 079	1.9	432	.9	4 485	11.7
Bledsoe	36 580	6.8	41 498	.4	79 044	.8	526	.9	12 536	4.3
Blount	29 517	6.3	18 568	.6	17 634	.9	1 052	.8	14 659	4.6
Bradley	34 535	5.2	54 891	.2	70 283	.7	780	.8	48 003	.7
Campbell	26 714	11.9	2 740	1.6	6 885	1.8	397	1.1	2 501	10.2
Cannon	29 196	8.2	12 117	1.0	16 070	1.3	754	.9	11 225	6.7
Carroll	34 825	6.1	22 233	.8	26 126	1.2	850	1.0	18 058	2.5
Carter	21 551	9.8	7 296	1.5	11 730	1.7	620	.9	5 661	7.1
Cheatham	24 733	8.3	8 851	1.8	15 918	1.9	555	.9	5 551	6.9
Chester	24 859	7.0	5 864	1.7	14 302	1.8	409	1.1	4 516	6.0
Claiborne	23 404	8.2	20 200	.9	14 459	1.2	1 398	.8	13 477	4.7
Clay	19 310	7.0	6 292	1.4	12 510	1.6	504	.8	5 095	9.2
Cocke	23 736	7.2	14 137	.8	15 956	1.1	885	.9	9 936	6.3
Coffee	32 711	5.8	29 859	.5	30 846	.8	968	.8	24 658	3.4
Crockett	98 972	4.4	48 056	.3	126 462	.7	380	.8	33 162	2.0
Cumberland	32 760	6.8	37 229	.3	51 280	.8	727	.9	18 544	3.1
Davidson	31 432	8.7	10 646	.9	19 974	1.6	534	1.6	8 323	4.8
Decatur	26 742	12.4	4 271	1.3	9 774	1.5	436	1.1	3 764	8.2
De Kalb	24 896	7.2	26 091	.5	32 371	1.0	806	1.0	18 264	4.6
Dickson	34 305	6.8	12 068	1.2	10 911	1.5	1 106	.9	11 705	7.8
Dyer	90 168	3.9	55 625	.3	105 750	.6	527	.8	37 702	2.0
Fayette	62 475	2.8	51 388	.3	71 771	.8	717	.7	38 586	2.1
Fentress	27 526	8.4	21 824	.6	43 301	1.0	505	1.0	18 307	2.6
Franklin	36 963	6.2	62 540	.4	63 492	.8	986	.8	47 773	1.3
Gibson	82 813	4.2	68 474	.3	78 346	.6	874	.6	48 382	1.3
Giles	27 272	5.4	30 281	.6	19 287	.8	1 570	.7	28 229	2.5
Grainger	25 412	4.7	16 253	.8	14 843	1.0	1 095	.6	11 628	4.4
Greene	28 279	4.2	51 213	.6	16 595	.8	3 088	.6	39 296	1.9
Grundy	25 404	6.8	30 792	.4	91 371	.9	336	1.0	24 632	1.2
Hamblen	34 679	10.2	13 724	.8	20 576	1.0	667	.9	11 841	3.4
Hamilton	27 015	9.4	8 282	1.0	13 712	1.5	604	1.2	7 439	4.0
Hancock	18 895	8.0	7 562	1.1	11 947	1.3	634	.9	5 337	6.1
Hardeman	31 620	6.5	18 721	.6	33 490	1.1	559	1.2	14 823	4.3
Hardin	27 268	6.3	9 648	1.2	16 243	1.3	594	.8	7 676	5.9
Hawkins	25 046	4.0	15 977	.9	8 812	1.1	1 813	.6	13 161	5.8
Haywood	115 847	2.6	63 051	.3	175 142	.7	360	.9	39 249	.9
Henderson	32 044	7.3	18 155	.8	21 159	1.1	858	.9	19 389	3.8
Henry	45 706	6.5	37 755	.5	45 433	.8	830	.7	28 961	2.0
Hickman	25 822	7.6	8 647	1.3	12 753	1.4	677	.9	8 575	5.5
Houston	36 642	11.6	4 022	2.1	13 916	2.2	288	1.2	4 128	10.3
Humphreys	35 812	5.7	8 166	1.0	14 152	1.3	577	.9	7 485	4.6
Jackson	19 269	10.9	5 083	1.8	8 402	2.0	606	1.1	3 903	10.1
Jefferson	29 191	5.0	20 019	.6	17 454	.8	1 147	.6	15 387	2.8
Johnson	23 483	8.5	7 608	1.4	11 205	1.5	677	.8	5 283	8.1
Knox	27 794	6.0	15 483	.6	12 978	1.1	1 193	1.0	12 388	4.1
Lake	226 948	2.8	23 404	.3	292 546	.6	80	2.7	17 617	.5
Lauderdale	85 447	8.5	47 293	.3	93 649	.8	506	.8	30 979	1.7
Lawrence	31 725	6.2	26 942	.8	16 662	1.2	1 617	.9	24 181	4.2
Lewis	31 644	8.8	2 392	1.3	10 774	1.4	222	1.7	2 344	3.9
Lincoln	33 967	5.3	49 394	.4	29 737	.8	1 661	.8	39 616	1.7
Loudon	43 951	7.5	45 067	.3	59 065	.8	762	.9	29 793	1.3
McMinn	28 543	4.2	34 171	.5	31 816	.9	1 073	.9	29 463	2.3
McNairy	30 442	6.1	11 116	.9	15 439	1.2	720	.9	9 096	3.1
Macon	23 415	5.4	20 117	1.2	16 250	1.3	1 239	.8	13 466	5.2
Madison	57 873	4.5	28 896	.4	50 607	1.1	571	1.1	22 158	2.2
Marion	36 125	7.6	10 685	.7	36 343	1.2	294	1.3	9 210	3.2
Marshall	28 461	5.5	21 622	.7	19 710	1.1	1 098	1.0	18 774	3.8

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Average market value of all machinery and equipment per farm[1]		Market value of agricultural products sold		Average market value of agricultural products sold per farm		Farm production expenses[1]			
							Total farm production expenses			
							Farms		Value	
	Value (dollars)	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Maury	26 643	5.6	27 442	.6	17 913	1.0	1 532	.8	21 094	3.3
Meigs	26 799	7.1	4 783	1.4	14 110	1.6	338	1.1	3 624	5.6
Monroe	32 540	6.3	18 881	.7	22 083	1.0	855	.8	16 345	3.3
Montgomery	31 982	4.6	30 810	.7	31 185	.9	987	.8	20 613	2.0
Moore	31 493	6.4	9 309	.7	25 092	.9	371	.8	8 250	3.4
Morgan	34 584	10.9	5 247	1.8	15 997	1.9	329	1.1	5 199	9.3
Obion	77 642	8.3	63 751	.3	90 427	.6	705	.7	41 419	1.3
Overton	21 067	6.8	11 704	1.1	13 166	1.4	890	.9	9 057	5.8
Perry	29 460	12.9	3 723	1.4	15 843	1.5	235	1.3	3 776	7.1
Pickett	16 794	9.1	4 699	2.0	12 564	2.2	374	1.1	2 827	8.7
Polk	44 151	11.5	22 149	.3	86 858	1.0	255	1.3	20 124	1.3
Putnam	23 247	7.3	11 911	1.2	10 635	1.5	1 122	1.0	9 968	4.7
Rhea	31 361	8.2	7 575	1.4	18 751	1.6	403	1.1	6 265	8.7
Roane	28 010	6.9	5 771	1.3	10 707	1.5	538	.8	5 009	4.7
Robertson	44 580	5.6	71 904	.5	48 781	.9	1 474	.8	45 805	1.6
Rutherford	23 872	6.1	19 841	1.0	12 471	1.3	1 592	.9	20 721	3.9
Scott	22 517	8.9	4 874	1.7	21 379	2.1	229	1.2	4 449	4.5
Sequatchie	27 986	4.8	4 864	1.3	28 781	1.5	169	1.8	4 239	3.4
Sevier	25 698	7.7	9 456	1.3	11 805	1.5	800	.9	8 273	6.2
Shelby	42 200	7.1	29 103	.4	42 611	1.3	684	1.3	21 362	2.1
Smith	24 111	6.9	12 840	1.1	12 287	1.2	1 047	.7	10 742	5.3
Stewart	23 224	12.6	5 298	1.6	15 137	1.7	350	.8	3 946	7.8
Sullivan	24 438	6.8	18 253	.6	13 880	.9	1 315	.8	13 143	4.1
Sumner	30 548	4.5	34 343	.7	20 166	1.0	1 704	.8	24 537	3.1
Tipton	68 656	5.8	38 561	.4	65 137	.9	593	.9	26 105	1.7
Trousdale	40 077	11.3	6 941	2.1	17 138	2.2	406	1.0	5 147	9.1
Unicoi	19 463	9.3	1 002	5.4	6 463	5.4	155	1.6	855	12.8
Union	19 847	7.2	3 842	1.4	7 063	1.5	544	.9	3 473	8.0
Van Buren	22 973	8.4	2 847	1.8	12 488	2.0	228	1.2	2 493	4.6
Warren	39 357	4.0	83 004	.3	61 622	.7	1 348	.7	54 900	1.3
Washington	30 210	4.5	44 742	.5	24 760	.8	1 806	.7	34 658	2.7
Wayne	20 581	7.8	8 207	1.3	11 724	1.5	699	1.0	8 033	3.7
Weakley	52 349	10.0	54 638	.3	54 097	.6	1 009	.7	37 311	2.6
White	27 142	7.4	16 887	.8	16 332	1.1	1 035	.8	14 369	4.3
Williamson	30 227	5.1	28 689	.7	20 347	1.0	1 410	.8	23 115	2.9
Wilson	24 147	5.5	17 310	1.0	10 328	1.2	1 676	.8	16 878	4.7

Farm production expenses[1]—Con.

Geographic area	Livestock and poultry purchased				Feed for livestock and poultry				Seeds, bulbs, plants, and trees			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Tennessee	**20 054**	**1.5**	**148 848**	**1.4**	**42 712**	**1.0**	**312 849**	**.5**	**27 448**	**1.1**	**72 719**	**.8**
Anderson	126	18.0	572	38.3	252	10.3	398	12.4	88	22.0	111	2.3
Bedford	474	8.0	6 840	4.5	1 021	3.8	32 852	.4	346	9.9	542	6.3
Benton	113	20.5	646	40.2	252	9.2	590	18.9	198	12.5	138	12.3
Bledsoe	154	15.8	3 384	11.0	277	9.4	1 800	8.7	136	14.3	209	6.9
Blount	256	12.0	699	11.4	633	6.0	1 896	6.1	265	11.7	1 170	17.9
Bradley	239	10.2	5 091	1.6	508	5.5	28 895	.3	141	14.4	283	15.0
Campbell	133	17.5	423	30.1	216	11.0	256	17.0	159	13.6	48	20.9
Cannon	260	11.9	2 167	25.6	557	5.4	2 003	8.8	193	14.7	215	7.3
Carroll	165	16.5	392	17.5	507	5.7	1 481	16.6	330	8.7	1 008	2.7
Carter	159	13.8	711	8.6	281	10.8	819	10.0	267	10.3	124	16.1
Cheatham	175	13.9	429	32.0	318	8.2	399	14.9	228	10.9	219	15.0
Chester	65	26.2	257	45.1	159	14.5	276	17.3	157	11.9	211	9.3
Claiborne	313	11.8	2 322	8.2	604	7.0	2 708	11.5	845	5.0	248	16.6
Clay	80	22.4	443	36.4	262	8.8	596	13.8	227	9.8	125	20.1
Cocke	169	17.1	1 700	9.2	390	8.8	1 816	3.6	360	8.3	272	13.4
Coffee	271	10.8	2 204	8.7	592	5.3	6 900	3.3	333	8.2	950	6.2
Crockett	45	26.2	150	8.4	180	9.1	322	9.2	219	8.7	2 072	3.9
Cumberland	233	11.0	2 914	11.9	471	6.0	2 719	3.7	162	14.1	845	2.9
Davidson	132	20.5	500	27.1	324	9.9	423	12.2	117	23.5	140	38.6
Decatur	69	29.2	186	28.3	172	14.8	514	11.1	107	17.3	184	17.8
De Kalb	171	16.9	420	18.7	481	6.7	1 106	13.0	268	10.5	3 468	1.3
Dickson	271	13.2	971	18.2	709	5.8	1 352	9.4	289	12.1	440	40.3
Dyer	80	22.6	528	10.0	196	13.2	601	10.4	251	8.3	2 991	3.8
Fayette	181	14.4	1 911	5.8	349	9.4	4 415	1.9	246	10.7	2 035	5.5
Fentress	249	10.1	2 900	4.8	338	7.4	9 594	2.0	129	12.4	92	10.9
Franklin	307	10.1	9 503	1.2	557	6.6	14 849	1.3	335	9.6	1 430	4.8
Gibson	198	14.8	1 741	8.3	389	7.8	2 110	4.0	429	6.7	3 788	2.8
Giles	523	8.3	6 994	3.9	1 200	3.2	4 716	4.2	345	10.3	398	8.5
Grainger	234	13.2	1 227	32.9	463	7.7	1 117	8.8	543	7.6	240	9.4

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Farm production expenses[1]—Con.											
	Livestock and poultry purchased				Feed for livestock and poultry				Seeds, bulbs, plants, and trees			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Greene	551	8.5	2 819	12.0	1 653	3.7	11 133	2.3	1 478	3.8	978	9.9
Grundy	128	14.5	2 544	1.4	190	10.4	15 137	.5	75	22.2	467	1.6
Hamblen	200	14.0	944	10.7	382	7.3	3 362	3.8	200	12.7	292	5.8
Hamilton	122	18.8	461	9.8	320	9.6	2 382	4.3	151	16.4	183	30.4
Hancock	121	19.4	1 187	9.4	264	10.6	555	8.2	382	8.0	64	15.5
Hardeman	168	13.1	676	16.7	303	8.4	1 453	7.2	177	12.4	948	4.9
Hardin	118	19.3	357	41.4	269	10.1	438	23.9	204	11.1	511	9.9
Hawkins	461	8.8	1 271	24.6	930	4.9	1 410	24.2	915	4.9	379	12.9
Haywood	57	27.9	258	22.8	109	17.6	319	12.6	279	7.0	2 454	1.8
Henderson	222	13.9	6 095	7.7	450	7.2	2 644	6.8	295	11.0	609	7.0
Henry	201	14.7	2 421	7.7	401	8.2	3 405	4.3	383	7.8	1 590	5.8
Hickman	244	12.6	867	13.9	503	5.3	2 010	8.1	171	13.2	213	23.6
Houston	105	14.1	1 193	16.5	211	5.8	405	10.7	48	24.1	36	20.0
Humphreys	167	14.9	512	9.3	341	8.4	1 039	6.9	168	13.0	292	4.8
Jackson	191	15.4	364	30.2	361	8.4	543	11.9	251	12.0	115	22.7
Jefferson	237	12.4	1 911	12.8	650	5.7	4 251	2.5	479	7.7	261	8.9
Johnson	117	18.9	799	23.2	226	11.2	271	16.2	364	6.7	172	6.2
Knox	340	11.1	1 089	14.9	746	4.7	1 433	14.2	267	11.4	496	13.9
Lake	5	10.4	37	1.4	7	10.9	20	9.8	64	2.7	1 366	.5
Lauderdale	62	26.2	225	6.0	141	16.0	433	5.8	284	7.3	2 304	4.1
Lawrence	445	9.6	3 118	18.2	970	4.5	5 058	6.2	443	8.6	714	8.9
Lewis	48	13.3	103	20.1	114	6.7	414	3.9	34	16.0	99	9.1
Lincoln	558	8.2	3 977	6.8	1 094	4.1	13 114	2.7	504	7.6	880	4.1
Loudon	175	16.0	851	13.8	287	11.9	2 911	3.1	212	15.9	1 260	.6
McMinn	310	11.2	4 212	8.5	660	5.8	11 852	3.1	288	10.6	450	3.7
McNairy	106	23.7	648	6.0	329	9.4	1 041	6.5	238	12.1	544	7.3
Macon	337	11.4	1 065	24.8	653	6.4	1 321	15.9	655	5.6	326	11.1
Madison	92	23.2	1 581	2.5	279	10.3	2 555	3.3	257	8.9	1 284	3.8
Marion	101	14.0	1 106	14.3	192	6.7	4 677	1.2	78	15.5	143	14.0
Marshall	314	11.6	1 428	13.1	736	5.2	4 783	3.0	285	10.7	528	5.6
Maury	470	8.6	1 857	10.4	948	4.6	3 851	2.8	478	7.9	629	9.1
Meigs	89	20.1	400	13.3	202	8.8	770	8.7	78	18.2	75	11.8
Monroe	196	15.0	1 615	11.1	445	7.7	3 771	2.0	253	11.3	321	17.0
Montgomery	236	13.8	1 392	9.2	538	7.7	1 468	7.1	457	6.6	969	3.1
Moore	100	16.2	898	7.6	217	9.5	3 691	1.1	111	15.5	117	27.3
Morgan	105	16.0	312	7.1	211	8.9	1 513	9.2	99	16.0	75	18.0
Obion	141	14.8	2 508	3.1	217	11.6	2 581	2.9	357	5.8	3 333	3.9
Overton	215	14.0	699	18.6	495	7.1	1 922	12.7	328	10.4	263	21.4
Perry	64	19.7	709	14.4	128	9.9	746	15.8	73	16.1	119	11.5
Pickett	117	18.1	323	29.0	211	9.9	258	17.7	200	10.0	72	22.1
Polk	101	16.4	1 929	2.3	145	12.2	11 466	.4	71	21.0	206	6.8
Putnam	342	11.2	1 044	15.4	580	7.0	1 600	8.1	307	11.4	212	24.0
Rhea	132	18.1	725	18.3	208	11.7	481	12.2	110	18.0	222	27.5
Roane	121	18.4	314	17.8	270	10.2	958	5.1	192	12.8	157	10.3
Robertson	346	10.4	3 638	6.2	749	5.3	5 686	1.8	726	4.5	2 286	5.0
Rutherford	447	9.6	2 205	10.0	1 080	3.9	4 387	8.5	326	10.6	700	9.2
Scott	48	20.9	558	17.0	121	12.7	2 323	7.3	58	22.6	19	17.3
Sequatchie	50	12.0	801	11.8	99	7.5	1 355	2.2	52	10.8	64	9.2
Sevier	262	11.2	1 221	14.3	512	6.1	2 363	3.4	258	11.1	100	21.5
Shelby	193	13.9	564	23.0	342	8.7	671	17.0	166	13.5	1 258	1.7
Smith	343	11.0	913	16.3	683	4.8	1 672	6.9	470	7.7	337	10.4
Stewart	115	15.7	248	23.5	178	11.9	317	21.3	137	13.5	213	20.3
Sullivan	310	11.6	1 916	13.6	660	6.0	1 651	6.4	465	7.4	278	11.0
Sumner	460	9.3	1 983	8.9	956	5.2	2 899	8.2	657	6.7	1 115	6.0
Tipton	94	17.8	221	28.5	196	11.9	299	12.8	262	9.9	1 863	3.2
Trousdale	120	19.3	213	24.6	225	11.0	270	17.3	182	11.0	213	23.0
Unicoi	38	19.1	217	34.4	74	13.0	53	24.1	54	16.1	10	21.2
Union	77	28.3	597	26.1	190	17.0	367	17.3	235	13.1	35	21.0
Van Buren	57	24.4	255	10.4	159	8.0	514	8.6	72	14.6	42	16.5
Warren	353	10.4	1 377	12.6	677	5.6	2 798	9.2	496	7.2	9 063	.9
Washington	506	8.5	3 171	11.7	1 036	4.4	5 178	9.4	763	5.6	719	7.6
Wayne	253	12.1	940	11.0	443	6.6	1 413	5.8	164	15.8	113	12.9
Weakley	239	13.4	3 969	7.6	488	7.4	5 566	8.2	370	9.3	2 305	6.4
White	248	12.9	1 386	26.0	674	5.3	3 533	5.5	283	11.6	177	6.7
Williamson	367	9.9	2 302	10.6	841	5.0	3 954	6.6	374	9.5	941	4.8
Wilson	551	8.3	3 080	16.8	1 085	4.0	2 613	7.0	422	9.5	144	11.9

Geographic area	Farm production expenses[1]—Con.											
	Commercial fertilizer				Agricultural chemicals				Petroleum products			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Tennessee	**51 727**	**.8**	**160 025**	**.7**	**26 800**	**1.2**	**94 026**	**.7**	**71 483**	**.7**	**85 428**	**.7**
Anderson	315	8.1	319	17.0	76	22.2	14	26.9	447	2.2	304	10.0
Bedford	722	5.5	1 829	4.8	364	9.4	597	10.2	1 317	1.7	1 774	3.3
Benton	239	11.1	552	22.1	83	22.9	117	17.2	357	5.8	337	17.0
Bledsoe	372	5.9	1 105	10.0	133	16.7	287	10.7	479	2.2	570	9.1

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Farm production expenses[1]—Con.											
	Commercial fertilizer				Agricultural chemicals				Petroleum products			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Blount	695	4.9	1 169	13.4	338	10.4	225	12.5	971	2.1	1 017	7.2
Bradley	374	7.5	896	5.6	202	12.2	163	7.7	759	1.6	1 144	3.1
Campbell	299	6.7	318	10.5	106	15.5	39	17.3	378	2.8	211	9.9
Cannon	397	8.5	868	9.1	250	12.9	345	7.8	690	2.7	628	8.8
Carroll	565	4.4	3 464	4.6	253	11.1	2 119	1.8	751	2.8	1 011	3.6
Carter	496	4.7	462	15.3	247	10.9	102	24.6	583	2.2	371	10.7
Cheatham	364	6.9	661	11.5	224	10.4	270	13.7	541	1.4	440	7.6
Chester	243	6.8	781	7.4	129	15.9	318	13.0	337	4.9	317	11.6
Claiborne	1 231	2.2	1 217	5.8	686	6.5	245	9.8	1 333	1.5	739	5.9
Clay	403	4.4	614	11.4	244	8.1	100	15.9	484	2.1	352	10.0
Cocke	707	4.0	716	6.6	344	8.6	203	5.2	876	1.1	584	11.6
Coffee	655	4.6	2 616	8.5	434	7.7	1 070	11.5	915	1.7	1 118	4.5
Crockett	340	4.0	6 055	2.1	217	8.8	6 915	2.0	369	2.3	1 878	3.1
Cumberland	545	4.8	1 137	6.3	151	14.2	296	10.6	682	1.8	817	6.0
Davidson	174	16.2	157	18.3	158	19.5	146	16.1	512	3.4	539	7.8
Decatur	235	9.2	715	16.0	93	20.8	99	15.3	381	4.7	353	11.6
De Kalb	521	6.3	1 613	4.9	306	9.3	306	13.9	714	3.2	810	22.8
Dickson	696	5.8	1 373	11.7	315	10.8	178	19.2	1 046	1.9	859	9.1
Dyer	377	5.1	5 111	3.2	272	7.9	6 703	4.3	457	3.6	2 198	2.9
Fayette	350	7.5	4 563	3.0	233	11.9	5 219	2.4	666	2.7	2 187	2.7
Fentress	323	7.2	592	11.2	178	12.8	98	16.1	450	4.0	541	9.2
Franklin	619	5.1	2 955	4.9	426	8.9	1 732	4.9	923	2.0	1 452	2.6
Gibson	574	5.2	9 177	2.0	446	5.8	8 287	2.7	724	3.4	2 571	3.1
Giles	850	5.2	1 867	5.2	418	8.8	633	6.0	1 438	1.6	1 265	4.7
Grainger	901	3.6	1 205	5.5	451	8.8	240	7.3	1 028	2.2	777	6.8
Greene	2 442	2.0	3 337	3.9	1 250	4.5	685	4.4	2 930	1.1	2 181	3.3
Grundy	160	12.1	459	19.1	83	16.5	116	7.3	300	5.1	739	4.6
Hamblen	482	5.4	871	7.3	222	12.5	115	12.4	563	3.6	479	6.9
Hamilton	376	8.0	592	12.1	126	19.5	83	10.0	575	2.2	544	9.9
Hancock	589	3.0	521	6.4	314	9.8	90	15.0	615	2.3	355	8.9
Hardeman	325	8.6	2 047	8.8	160	13.7	1 756	5.9	508	2.9	770	3.8
Hardin	376	7.1	1 443	7.7	199	12.7	508	14.5	532	3.0	617	7.0
Hawkins	1 509	2.0	1 283	5.1	688	6.5	240	20.0	1 763	1.1	964	6.2
Haywood	300	5.8	6 973	1.3	223	7.8	7 248	1.1	331	3.6	2 429	2.0
Henderson	539	6.2	2 320	8.0	295	11.3	767	14.0	758	3.7	1 028	9.9
Henry	538	3.9	3 950	7.2	317	9.3	1 976	3.8	711	3.0	1 369	3.4
Hickman	459	6.3	972	10.4	172	15.3	232	26.3	633	3.1	627	8.4
Houston	227	5.6	455	14.7	71	18.8	31	38.1	275	2.4	284	29.2
Humphreys	429	5.8	1 036	6.3	175	14.5	298	7.5	554	2.0	506	5.1
Jackson	448	6.0	346	12.6	236	11.6	65	20.8	599	1.5	364	11.7
Jefferson	868	4.0	1 098	7.1	418	8.9	218	6.4	1 085	1.5	735	5.9
Johnson	566	3.1	516	7.9	382	6.0	134	8.5	617	2.4	382	6.4
Knox	690	5.9	879	11.1	298	11.7	296	11.8	1 113	1.9	797	7.0
Lake	51	2.8	1 744	.4	61	2.7	3 524	.6	79	2.7	906	.6
Lauderdale	362	5.6	4 541	3.1	308	6.0	5 175	3.3	438	3.8	2 274	1.8
Lawrence	959	4.7	2 943	5.0	386	8.7	774	9.6	1 499	1.7	1 225	5.2
Lewis	135	5.6	261	11.4	36	14.6	63	18.9	206	2.4	139	5.1
Lincoln	1 037	4.3	2 721	3.5	443	9.1	1 209	2.5	1 597	1.2	1 680	3.7
Loudon	527	5.5	854	8.7	203	17.6	211	12.2	715	3.2	986	5.1
McMinn	746	4.4	1 565	5.6	255	11.5	315	7.1	1 028	1.7	1 042	4.0
McNairy	412	6.8	1 394	5.7	265	13.1	560	7.6	615	3.8	654	4.7
Macon	1 102	2.4	1 964	11.0	670	5.2	382	10.9	1 204	1.3	836	6.2
Madison	317	8.4	2 959	3.0	199	11.2	3 130	2.6	525	2.9	1 131	4.6
Marion	186	8.2	431	7.3	62	15.6	206	8.4	267	3.9	371	6.1
Marshall	597	5.7	1 592	21.7	230	13.5	261	26.7	1 013	2.3	927	5.0
Maury	851	4.6	1 596	11.9	447	8.5	654	14.1	1 440	1.4	1 407	8.1
Meigs	256	7.1	394	9.3	56	25.1	40	14.4	330	2.3	245	7.5
Monroe	586	5.6	1 489	5.7	215	12.5	470	10.4	803	2.1	713	6.8
Montgomery	687	5.1	2 567	6.1	411	7.2	918	4.7	931	1.9	1 396	5.5
Moore	206	8.5	439	15.3	130	15.0	72	17.4	365	1.2	380	7.4
Morgan	235	6.6	497	18.9	75	22.3	78	20.5	306	2.3	320	9.6
Obion	472	5.2	6 928	3.0	406	5.9	4 524	1.4	644	2.4	2 303	3.5
Overton	678	4.1	976	9.0	329	9.6	158	10.1	848	2.0	653	8.9
Perry	141	10.0	287	9.1	48	22.1	69	20.4	209	3.5	204	9.0
Pickett	302	6.3	291	9.5	199	11.1	73	13.2	343	3.9	256	13.0
Polk	117	13.6	430	12.7	53	21.3	203	6.7	244	2.5	487	2.9
Putnam	834	4.2	1 010	8.4	438	8.7	214	18.9	1 006	2.1	556	9.1
Rhea	260	8.1	619	20.0	101	18.4	280	45.9	368	3.6	318	7.2
Roane	366	6.8	459	14.2	175	14.4	41	20.9	520	2.0	365	7.0
Robertson	1 099	3.1	5 052	3.9	732	4.5	2 611	3.1	1 448	1.0	2 772	4.1
Rutherford	766	5.5	1 758	7.9	363	9.2	695	17.7	1 444	2.0	1 088	5.1
Scott	141	10.9	182	14.5	50	23.6	25	21.4	217	3.5	184	8.9
Sequatchie	103	6.7	279	17.5	39	12.1	74	7.9	157	3.0	182	7.5
Sevier	562	5.1	687	8.3	243	12.9	99	18.2	749	2.4	493	8.1
Shelby	358	8.5	2 308	4.0	210	12.3	2 637	1.5	585	4.0	1 312	3.7
Smith	745	4.2	926	7.0	511	7.7	390	8.8	971	2.0	734	6.5
Stewart	241	6.2	505	15.8	124	15.1	174	28.9	335	2.7	339	8.9
Sullivan	929	3.6	1 067	8.7	531	7.1	221	19.1	1 192	2.1	854	8.9
Sumner	1 052	4.3	2 357	6.6	663	6.4	780	6.9	1 640	1.3	1 413	3.7
Tipton	406	6.8	3 333	2.2	307	9.0	4 623	2.4	572	2.5	1 660	3.4

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Farm production expenses[1]—Con.											
	Commercial fertilizer				Agricultural chemicals				Petroleum products			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Trousdale	305	5.2	622	15.9	195	10.0	146	31.0	373	3.6	375	11.8
Unicoi	118	7.9	100	14.9	54	18.0	18	20.3	149	3.7	54	13.0
Union	422	5.9	498	16.7	185	15.0	57	20.8	507	2.4	291	19.1
Van Buren	150	8.2	291	8.8	73	13.4	27	19.0	210	5.4	143	8.2
Warren	985	3.3	2 657	5.1	586	5.7	1 122	4.8	1 283	1.6	2 136	3.2
Washington	1 457	2.5	2 238	5.8	643	6.8	865	3.0	1 703	1.4	1 575	5.8
Wayne	534	4.8	934	5.4	154	15.2	227	21.3	667	2.2	615	8.4
Weakley	592	6.0	6 012	3.2	413	9.0	3 076	5.6	839	3.1	1 948	5.4
White	793	4.1	1 539	5.2	367	10.4	205	9.6	950	1.9	717	5.3
Williamson	731	5.4	1 433	5.8	314	10.8	274	11.5	1 310	1.9	1 337	7.8
Wilson	911	5.1	1 092	10.2	436	9.5	153	16.8	1 569	1.6	1 098	8.1

Geographic area	Farm production expenses[1]—Con.											
	Electricity				Hired farm labor				Contract labor			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Tennessee	**35 211**	**1.0**	**22 489**	**.9**	**22 550**	**1.3**	**159 187**	**.6**	**6 548**	**2.6**	**26 308**	**2.9**
Anderson	170	14.5	67	13.8	84	24.0	599	9.0	41	36.6	25	37.6
Bedford	721	5.9	676	4.4	410	9.1	1 937	3.0	80	15.8	700	4.3
Benton	192	12.2	63	12.7	89	24.8	86	24.5	22	50.0	18	27.5
Bledsoe	278	9.5	269	5.0	133	14.7	997	3.2	60	25.3	309	13.3
Blount	469	7.8	303	9.0	267	11.7	2 348	7.4	100	21.3	350	12.3
Bradley	388	6.9	626	3.2	197	12.3	2 227	3.8	66	21.4	308	1.9
Campbell	84	22.6	33	45.5	105	18.8	151	23.9	23	52.7	37	54.4
Cannon	457	7.3	182	14.0	146	16.5	414	11.6	21	44.4	97	11.9
Carroll	368	8.0	175	8.5	177	14.4	1 137	3.0	47	29.7	380	9.0
Carter	262	10.2	116	13.0	200	12.2	695	12.6	32	35.4	123	67.4
Cheatham	263	9.9	91	15.1	146	14.6	449	26.0	63	20.0	177	26.8
Chester	154	13.9	59	11.4	96	19.4	161	6.2	10	72.3	30	61.2
Claiborne	528	8.1	231	11.9	510	7.7	1 057	14.3	172	18.2	246	15.9
Clay	203	10.1	84	14.0	176	12.4	442	33.0	48	26.2	118	35.8
Cocke	347	9.0	204	22.6	210	13.0	890	5.8	72	25.1	181	27.2
Coffee	523	6.2	384	4.7	279	11.2	2 144	4.3	63	26.6	167	8.9
Crockett	273	7.0	161	6.4	206	9.5	3 373	1.3	56	23.4	112	6.6
Cumberland	297	9.3	346	3.6	182	10.9	3 206	1.7	60	26.2	620	2.9
Davidson	214	14.5	167	17.6	102	25.1	2 625	.9	25	45.9	95	24.1
Decatur	178	12.1	64	14.9	85	25.6	94	13.7	21	58.1	60	73.0
De Kalb	427	7.1	290	7.5	223	13.1	3 345	4.4	127	19.7	647	9.0
Dickson	480	8.6	172	20.2	307	11.8	566	14.0	72	29.6	263	54.2
Dyer	292	8.3	200	5.3	215	9.6	4 300	1.6	33	26.2	166	18.6
Fayette	303	9.1	335	3.8	271	10.6	4 677	7.1	56	24.6	150	3.0
Fentress	253	10.1	203	11.7	173	14.1	798	8.2	50	31.3	111	23.4
Franklin	514	8.0	734	5.1	271	12.0	4 124	1.4	97	22.1	327	6.8
Gibson	473	6.9	397	6.1	281	9.4	3 013	7.1	55	23.6	319	33.0
Giles	633	6.4	353	6.1	397	10.2	1 333	3.3	159	16.8	205	11.1
Grainger	394	9.3	160	6.0	439	7.7	1 980	4.6	113	20.9	183	11.8
Greene	1 705	3.7	711	4.6	1 143	5.2	2 835	6.6	350	10.4	982	16.1
Grundy	184	8.8	207	5.7	111	17.9	1 042	1.3	33	27.4	351	9.0
Hamblen	298	9.2	173	8.2	240	12.2	1 975	3.9	43	31.8	96	27.6
Hamilton	226	12.2	96	10.0	90	20.7	694	22.2	51	31.7	35	27.7
Hancock	182	13.3	48	10.6	341	8.3	414	10.2	35	40.7	47	43.0
Hardeman	201	12.4	138	11.4	150	15.6	1 093	1.9	35	38.9	88	43.6
Hardin	261	9.6	101	11.1	156	16.7	549	3.4	16	36.7	44	11.7
Hawkins	798	5.8	210	8.4	696	6.6	838	9.4	167	16.4	366	45.6
Haywood	170	12.7	213	5.3	155	11.0	4 496	1.3	24	1.3	262	.1
Henderson	405	7.6	179	7.5	181	17.2	703	10.5	35	38.0	41	25.8
Henry	469	6.1	424	7.2	232	12.1	2 270	4.2	64	28.1	1 384	2.9
Hickman	378	9.1	134	11.3	146	18.9	165	15.9	71	28.2	73	31.8
Houston	113	13.8	49	33.7	71	18.6	91	18.3	20	36.0	25	63.5
Humphreys	356	6.9	133	9.4	204	13.1	326	8.7	44	25.1	96	29.5
Jackson	215	12.5	52	28.4	154	17.2	304	42.5	48	34.6	39	41.1
Jefferson	601	6.7	275	7.3	411	9.5	1 153	5.6	122	19.5	289	12.4
Johnson	282	9.5	91	6.8	259	10.2	502	7.8	65	26.0	233	15.3
Knox	545	7.4	297	8.4	303	11.0	1 846	6.2	98	21.8	268	7.6
Lake	46	3.0	105	.9	47	2.4	1 852	.4	13	5.6	73	6.8
Lauderdale	239	10.1	219	3.6	206	10.1	4 136	3.0	50	28.0	399	3.9
Lawrence	635	7.0	292	7.6	397	9.4	1 555	4.9	96	22.5	195	20.4
Lewis	80	9.4	23	11.8	53	12.2	141	4.6	24	18.8	115	2.8
Lincoln	730	5.9	535	3.9	504	8.0	2 839	3.0	114	18.9	302	12.4
Loudon	299	12.5	1 219	2.9	150	19.7	(D)	(D)	60	33.6	68	39.1
McMinn	518	6.8	449	5.0	288	10.7	1 957	4.9	110	21.1	254	5.2
McNairy	253	11.6	112	6.6	83	23.6	464	2.7	19	36.7	29	3.6
Macon	592	6.9	213	11.5	468	8.6	1 266	15.6	177	17.2	705	17.5
Madison	256	9.2	184	7.4	139	14.6	1 591	4.8	15	4.2	89	3.0
Marion	110	13.6	72	5.6	64	19.5	196	4.7	28	31.0	94	10.6
Marshall	563	7.0	357	6.9	283	12.0	1 104	3.5	87	24.8	179	26.0

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Farm production expenses[1]—Con.											
	Electricity				Hired farm labor				Contract labor			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Maury	710	5.9	431	8.0	468	8.6	1 759	5.4	104	18.7	420	16.0
Meigs	131	13.5	56	12.2	51	25.8	198	2.1	17	43.6	54	65.6
Monroe	339	9.2	327	5.8	231	13.1	1 795	3.9	62	24.7	200	42.3
Montgomery	433	9.0	281	6.4	395	8.6	2 848	6.5	102	21.3	509	16.5
Moore	179	11.4	111	7.9	96	15.8	403	27.9	15	60.7	5	66.2
Morgan	169	11.9	72	16.5	116	15.5	235	21.4	32	41.5	28	39.6
Obion	390	6.8	457	3.6	179	9.7	3 178	1.8	11	–	48	–
Overton	370	9.8	123	10.6	264	12.3	572	15.5	58	29.1	35	18.5
Perry	105	12.7	34	11.0	72	17.2	287	3.9	19	38.0	35	15.6
Pickett	183	12.4	34	16.6	174	11.5	(D)	(D)	29	42.0	101	34.6
Polk	130	13.8	241	4.9	60	20.7	1 095	.5	24	32.7	225	2.8
Putnam	475	8.3	162	10.4	351	9.4	721	6.2	106	21.8	127	9.4
Rhea	150	14.3	67	6.6	64	25.0	689	6.8	58	24.9	193	21.9
Roane	227	12.1	70	9.1	150	15.3	372	26.4	20	43.8	48	25.2
Robertson	776	5.2	597	4.2	559	6.4	4 931	4.9	202	14.0	1 214	11.3
Rutherford	774	5.8	420	9.7	394	9.6	875	7.2	111	20.2	208	9.8
Scott	102	13.7	52	9.2	76	19.5	125	15.4	18	38.6	34	34.9
Sequatchie	57	9.0	39	7.6	38	12.5	233	16.4	8	37.9	14	54.6
Sevier	360	9.0	140	14.3	173	15.8	315	13.6	90	23.9	222	34.8
Shelby	265	10.6	216	9.5	152	13.9	3 007	.8	67	25.8	329	8.3
Smith	552	7.4	198	8.8	305	11.3	551	26.5	94	25.2	197	21.4
Stewart	165	11.7	61	19.5	133	13.5	416	17.0	10	54.6	38	5.6
Sullivan	587	7.3	230	6.6	332	10.2	1 352	6.2	94	21.6	163	25.6
Sumner	725	6.6	529	4.2	510	8.9	2 444	3.9	211	14.8	1 115	52.0
Tipton	279	8.4	161	8.6	136	12.0	2 303	1.7	19	35.0	80	2.5
Trousdale	223	11.5	73	20.7	137	13.7	440	19.5	107	22.7	435	24.4
Unicoi	48	20.5	7	24.1	57	16.7	50	26.2	12	38.8	16	48.9
Union	161	17.9	36	33.1	102	23.6	94	19.0	29	48.4	88	45.8
Van Buren	87	15.5	33	12.5	73	15.3	147	10.3	32	27.2	67	53.0
Warren	722	5.6	696	3.3	445	8.2	14 157	1.4	220	10.5	3 732	2.7
Washington	879	5.4	559	6.4	672	6.5	5 902	2.8	186	14.8	1 312	4.0
Wayne	367	8.5	98	8.9	194	14.3	342	9.2	55	30.2	78	34.4
Weakley	552	6.3	532	5.6	327	11.3	2 123	4.0	56	28.3	576	1.1
White	335	10.4	196	9.9	304	12.0	1 110	2.7	76	26.2	216	8.1
Williamson	638	6.5	454	10.7	328	10.3	2 420	3.8	125	17.2	267	12.8
Wilson	718	6.5	243	11.6	330	11.9	499	21.5	111	20.6	132	16.6

Geographic area	Farm production expenses[1]—Con.											
	Repair and maintenance				Customwork, machine hire, and rental of machinery and equipment				Interest			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Tennessee	**56 816**	**.8**	**128 384**	**.9**	**17 082**	**1.6**	**29 042**	**1.6**	**22 345**	**1.4**	**113 698**	**1.3**
Anderson	352	5.9	378	14.1	110	20.7	243	67.0	102	21.2	428	31.5
Bedford	1 123	3.2	2 385	5.0	304	10.6	379	12.9	493	8.1	2 724	6.8
Benton	338	6.8	483	13.2	112	20.8	81	29.6	106	20.0	392	25.6
Bledsoe	400	5.8	864	8.3	143	16.7	191	11.9	170	13.7	800	14.9
Blount	848	3.7	1 425	11.0	160	16.3	136	10.1	206	13.9	911	16.0
Bradley	591	4.5	1 459	6.1	159	13.9	184	10.4	189	12.2	1 825	9.3
Campbell	255	9.2	252	12.8	58	28.6	45	49.8	70	23.9	165	27.0
Cannon	575	5.2	1 224	14.1	133	18.7	117	18.9	252	11.8	1 087	13.9
Carroll	620	4.6	1 626	5.2	248	12.2	500	9.1	226	12.7	1 556	10.3
Carter	423	6.1	510	8.6	138	18.3	134	44.2	125	18.5	397	22.9
Cheatham	451	4.7	612	9.2	135	17.1	111	19.7	112	18.9	416	23.7
Chester	255	8.2	449	8.3	60	26.1	106	26.4	131	17.8	586	20.0
Claiborne	992	3.8	1 205	7.8	286	13.0	161	17.8	302	11.5	866	14.2
Clay	341	6.1	528	9.0	90	20.4	65	20.7	163	13.1	549	15.3
Cocke	601	5.6	816	13.3	138	18.4	102	14.9	152	16.3	595	31.9
Coffee	709	4.1	1 666	6.7	202	13.3	285	11.9	306	10.2	1 423	14.2
Crockett	333	3.6	3 371	2.4	149	13.2	1 146	6.7	222	8.8	2 262	5.2
Cumberland	515	5.3	1 102	6.9	143	16.0	644	5.0	163	15.0	964	13.7
Davidson	372	8.3	782	21.2	84	25.4	99	21.0	67	30.6	341	21.5
Decatur	325	7.5	466	17.8	90	20.3	94	27.1	118	15.3	262	27.1
De Kalb	596	4.6	1 390	9.8	161	18.6	257	16.6	213	15.1	1 098	14.5
Dickson	868	4.0	1 443	10.5	206	15.2	140	18.5	350	11.3	1 179	15.5
Dyer	381	5.8	3 196	3.8	150	12.6	1 171	3.8	238	8.9	2 743	4.1
Fayette	541	5.4	2 739	3.5	118	15.0	709	2.9	254	11.1	2 112	7.2
Fentress	362	6.4	705	13.5	114	19.2	182	19.1	199	14.0	710	15.3
Franklin	742	5.1	2 689	6.8	238	13.3	371	16.9	287	10.9	1 845	9.3
Gibson	609	4.7	3 429	2.6	225	11.1	1 764	1.6	342	8.8	3 473	4.9
Giles	1 109	3.7	2 158	7.5	337	10.8	462	13.4	533	7.9	2 998	9.4
Grainger	795	4.8	967	8.4	160	19.7	206	20.0	309	12.1	886	10.9

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Farm production expenses[1]—Con.											
	Repair and maintenance				Customwork, machine hire, and rental of machinery and equipment				Interest			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Greene	2 289	2.5	3 246	3.9	921	6.1	608	7.3	772	6.8	2 870	11.8
Grundy	274	6.3	783	7.0	46	25.9	99	23.9	162	13.7	672	9.9
Hamblen	456	6.3	864	7.9	154	16.4	142	21.8	172	15.9	612	17.0
Hamilton	393	7.3	490	9.8	89	23.3	70	24.3	116	19.8	365	22.6
Hancock	500	5.4	411	10.4	153	16.5	102	26.5	169	14.3	466	14.9
Hardeman	412	6.0	1 470	12.7	66	25.8	233	9.7	174	13.5	1 167	12.2
Hardin	423	5.0	857	13.1	181	15.0	185	23.0	251	11.0	686	12.8
Hawkins	1 346	3.3	1 489	8.0	434	9.7	330	17.6	364	10.5	1 059	15.6
Haywood	236	8.9	2 947	1.6	69	11.4	878	3.3	165	8.7	2 565	2.6
Henderson	662	4.9	1 479	9.5	171	17.6	231	14.8	223	14.7	860	11.0
Henry	573	5.2	2 133	4.8	215	11.1	585	8.3	320	10.4	2 623	6.8
Hickman	554	5.1	852	8.5	113	21.2	84	27.5	193	15.7	697	16.7
Houston	208	7.1	403	18.3	81	18.1	124	33.7	85	17.5	302	17.0
Humphreys	506	3.8	808	8.2	162	15.7	118	20.5	131	16.3	711	20.7
Jackson	432	6.0	448	12.0	146	17.6	118	29.6	179	15.3	395	26.7
Jefferson	916	3.4	1 173	7.2	293	11.6	164	15.2	273	12.0	1 140	14.6
Johnson	442	5.8	488	15.0	93	21.1	49	13.4	135	16.2	426	31.9
Knox	892	4.1	1 316	6.8	187	16.1	89	16.3	258	12.1	921	19.0
Lake	70	2.6	1 333	.8	46	3.3	759	2.0	50	2.7	1 236	.5
Lauderdale	358	5.4	2 890	3.8	142	16.3	1 081	19.6	170	11.7	1 780	5.1
Lawrence	1 219	3.2	1 934	6.3	288	12.4	260	10.9	449	9.4	2 188	10.0
Lewis	155	4.8	282	10.4	38	15.1	24	13.5	56	11.8	227	12.5
Lincoln	1 159	3.7	2 738	5.4	507	8.7	554	9.9	609	7.2	3 533	6.6
Loudon	522	7.2	2 591	4.4	106	22.5	310	2.5	170	17.7	641	14.4
McMinn	809	4.2	1 672	5.7	280	11.6	471	18.1	259	11.6	1 709	10.2
McNairy	500	5.2	959	7.8	144	17.7	222	16.6	247	13.9	816	11.7
Macon	924	3.9	1 231	8.0	355	10.4	322	13.8	447	9.5	1 426	10.7
Madison	364	7.9	1 739	3.9	83	20.5	609	5.2	193	12.8	1 438	6.0
Marion	195	7.7	358	9.6	56	21.3	79	29.9	86	16.2	274	10.4
Marshall	851	3.7	1 691	7.2	261	12.5	414	21.3	391	10.1	1 667	10.4
Maury	1 141	3.4	2 138	6.6	355	10.8	348	9.6	467	8.9	1 787	10.5
Meigs	267	6.9	320	11.0	72	21.6	98	33.0	98	17.8	358	16.2
Monroe	649	4.7	1 246	5.5	140	16.6	236	11.0	176	14.3	1 309	12.5
Montgomery	761	4.5	2 011	5.3	166	16.2	216	12.4	362	9.2	1 791	8.0
Moore	271	7.0	514	9.8	108	18.5	72	21.3	98	18.3	514	18.3
Morgan	247	6.4	445	16.1	50	27.0	26	25.0	122	16.5	453	22.9
Obion	479	5.3	3 066	3.4	207	9.8	987	6.6	314	7.8	3 073	3.8
Overton	604	6.1	792	10.3	220	14.7	130	19.1	288	12.0	1 029	13.6
Perry	161	7.0	460	21.6	51	25.6	32	41.7	59	18.8	243	14.0
Pickett	277	7.5	253	15.1	122	16.9	47	18.9	148	15.9	394	22.0
Polk	175	9.5	550	6.2	46	25.7	133	24.1	115	15.5	1 044	9.9
Putnam	801	4.3	962	7.7	210	14.9	147	17.8	271	12.1	870	18.4
Rhea	333	4.5	521	13.9	102	21.2	123	31.4	110	18.7	669	12.7
Roane	375	6.5	434	10.8	66	26.6	50	29.8	102	22.1	253	29.1
Robertson	1 177	3.1	4 116	4.6	380	9.0	947	14.6	527	7.3	3 870	7.4
Rutherford	1 164	3.6	1 948	9.7	357	10.6	422	12.6	432	9.6	1 906	11.3
Scott	167	9.1	194	11.8	13	39.5	32	10.0	39	28.6	140	27.9
Sequatchie	133	4.9	214	9.6	21	19.0	16	17.1	61	9.4	237	10.7
Sevier	598	4.9	741	10.4	180	14.9	115	21.7	168	15.5	474	19.4
Shelby	482	6.7	2 030	5.4	93	19.1	349	5.7	145	14.5	1 131	5.9
Smith	827	3.9	1 377	12.3	331	11.2	266	18.0	388	9.9	1 094	13.8
Stewart	285	6.0	508	14.2	81	21.8	43	26.4	116	16.2	350	21.8
Sullivan	1 021	3.6	1 325	8.6	244	12.4	183	16.1	278	11.7	905	15.2
Sumner	1 234	3.8	2 155	6.4	397	10.4	520	16.9	416	9.7	2 100	10.4
Tipton	411	6.4	2 182	3.4	98	17.3	936	3.1	200	10.5	1 438	5.5
Trousdale	313	6.4	639	15.1	107	20.0	144	33.3	180	14.9	449	21.3
Unicoi	113	9.4	78	13.9	27	30.9	10	42.8	11	35.6	39	43.4
Union	357	7.7	248	16.0	64	33.1	25	42.1	131	19.6	365	25.5
Van Buren	179	7.4	190	8.3	92	14.9	72	20.2	97	15.9	228	17.4
Warren	1 044	3.4	3 540	4.6	378	9.7	647	4.9	588	7.3	3 735	6.8
Washington	1 405	2.9	2 950	4.8	489	9.0	369	10.0	440	9.7	1 722	9.8
Wayne	542	4.6	674	8.3	154	16.8	132	12.1	307	8.5	1 078	12.4
Weakley	698	4.7	2 622	4.5	282	11.8	737	8.2	343	10.5	2 929	11.3
White	784	4.6	1 430	7.2	235	15.5	247	23.4	294	12.2	1 193	13.0
Williamson	1 016	4.0	2 316	8.4	275	12.2	310	15.9	312	11.3	1 690	7.4
Wilson	1 263	3.4	1 804	12.0	338	11.2	480	14.4	473	9.2	1 774	13.2

Geographic area	Farm production expenses[1]—Con.											
	Cash rent				Property taxes paid				All other farm production expenses			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Tennessee	**10 868**	**1.9**	**58 982**	**1.0**	**73 297**	**.7**	**64 228**	**1.0**	**63 154**	**.8**	**165 514**	**.6**
Anderson	85	22.5	150	33.6	425	3.6	452	16.0	357	5.5	383	13.4
Bedford	154	15.0	587	9.0	1 364	1.4	1 241	4.8	1 101	3.0	3 716	2.4
Benton	43	37.4	77	45.7	414	3.0	269	17.8	387	4.3	638	29.5

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Farm production expenses[1]—Con.											
	Cash rent				Property taxes paid				All other farm production expenses			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Bledsoe	76	25.2	190	19.8	511	1.8	415	7.1	431	4.7	1 146	4.5
Blount	161	15.1	418	12.4	1 019	1.5	751	5.4	896	3.0	1 842	7.2
Bradley	96	18.0	280	4.4	749	1.8	934	8.9	654	3.6	3 688	1.6
Campbell	22	33.8	53	37.3	352	5.0	226	9.8	266	8.6	245	13.8
Cannon	70	23.6	247	6.1	727	1.9	563	6.4	596	4.9	1 068	7.2
Carroll	76	20.8	858	2.2	820	1.6	901	7.6	672	3.9	1 450	4.0
Carter	80	20.7	95	14.4	598	2.1	336	8.2	492	4.6	665	15.2
Cheatham	78	23.1	127	30.4	513	3.1	493	6.3	462	3.9	658	10.1
Chester	57	27.1	239	8.0	400	1.8	223	8.1	343	5.3	505	6.3
Claiborne	150	18.5	203	28.8	1 348	1.5	831	5.1	1 111	3.2	1 195	8.3
Clay	64	23.2	52	23.2	490	1.4	394	8.6	411	4.3	632	11.7
Cocke	105	18.8	304	16.5	822	2.5	542	7.2	662	5.1	1 010	7.1
Coffee	143	16.5	667	7.6	937	1.4	1 023	17.1	810	2.7	2 042	3.4
Crockett	106	13.2	2 441	6.1	363	2.0	584	4.8	359	3.0	2 319	2.3
Cumberland	117	16.7	249	18.5	712	1.3	504	4.9	593	3.6	2 183	3.0
Davidson	31	38.5	23	57.3	502	3.6	911	10.5	472	4.0	1 376	4.5
Decatur	41	30.8	80	19.4	419	3.1	189	8.2	348	6.3	402	9.6
De Kalb	100	24.1	312	24.6	767	2.3	487	5.2	671	4.0	2 716	6.2
Dickson	99	21.8	286	58.9	1 077	1.5	915	4.8	953	3.1	1 567	15.2
Dyer	119	14.1	3 796	1.8	456	3.9	679	6.7	448	4.6	3 317	3.1
Fayette	158	13.8	2 246	2.6	667	2.3	1 167	8.5	626	3.5	4 119	3.3
Fentress	71	21.0	161	13.2	505	1.0	315	6.0	447	4.3	1 305	6.5
Franklin	154	16.5	961	4.3	943	1.7	1 085	9.9	868	3.3	3 717	4.3
Gibson	180	11.4	3 530	5.2	828	2.0	980	5.3	767	3.0	3 803	1.4
Giles	232	13.5	653	10.2	1 515	1.3	1 308	4.6	1 292	2.5	2 885	4.6
Grainger	102	23.5	190	8.7	1 031	2.1	521	5.9	819	4.2	1 726	3.9
Greene	362	10.2	811	7.0	2 965	1.0	1 883	4.9	2 523	2.1	4 217	3.2
Grundy	31	38.2	135	18.8	325	3.0	268	7.1	309	2.8	1 612	2.2
Hamblen	75	21.6	193	15.2	640	2.1	565	10.8	578	4.0	1 159	4.9
Hamilton	93	21.0	118	20.2	571	3.0	638	13.0	497	5.3	688	5.6
Hancock	62	25.1	80	28.6	581	3.3	266	6.7	466	5.7	730	13.4
Hardeman	138	17.0	955	3.6	535	2.6	432	6.5	470	4.4	1 597	4.0
Hardin	91	23.1	147	40.6	571	2.5	412	18.5	492	4.0	819	11.4
Hawkins	201	14.7	277	24.4	1 692	1.6	1 378	7.7	1 462	2.6	1 669	6.4
Haywood	146	6.5	4 149	1.5	328	3.9	587	4.8	311	6.4	3 472	1.4
Henderson	75	26.2	257	8.6	847	1.2	389	4.3	633	5.6	1 787	7.2
Henry	83	17.9	1 147	10.8	811	1.3	799	4.5	661	4.0	2 886	4.0
Hickman	88	23.3	170	39.6	659	1.7	539	5.2	557	4.3	940	11.3
Houston	48	24.4	156	61.8	278	2.5	205	7.4	252	4.1	370	11.6
Humphreys	119	16.0	346	6.4	557	2.1	451	7.8	495	4.5	814	7.8
Jackson	94	23.4	101	29.2	588	2.2	283	7.5	412	5.7	366	14.8
Jefferson	126	19.2	190	13.6	1 077	1.9	782	4.3	1 017	2.6	1 745	4.4
Johnson	80	19.7	189	37.1	636	2.2	445	10.1	478	4.4	586	8.3
Knox	169	16.6	389	12.3	1 100	2.3	949	5.5	957	3.5	1 324	5.5
Lake	50	3.0	2 835	.5	71	2.7	188	.9	75	2.7	1 638	.2
Lauderdale	136	13.1	2 236	.9	462	3.3	533	5.4	421	4.4	2 753	5.0
Lawrence	242	12.7	665	17.6	1 578	1.4	1 270	5.8	1 338	2.8	1 990	4.3
Lewis	47	13.8	37	23.8	218	2.0	175	13.9	170	4.3	240	5.4
Lincoln	247	11.9	949	8.6	1 635	1.0	1 246	4.6	1 390	2.5	3 339	3.0
Loudon	61	28.0	(D)	(D)	721	2.1	616	8.1	630	4.3	3 710	2.2
McMinn	151	16.3	352	12.7	1 011	2.0	836	6.3	877	3.5	2 326	3.6
McNairy	100	22.8	354	17.3	681	2.6	537	12.1	555	4.4	762	4.5
Macon	128	18.5	277	21.2	1 179	1.8	883	5.8	1 046	2.7	1 247	8.9
Madison	99	18.7	1 449	2.7	551	2.3	508	5.9	453	5.3	1 911	10.0
Marion	45	23.7	237	10.2	284	2.3	229	5.8	226	6.1	736	9.0
Marshall	129	18.3	343	13.8	1 064	1.5	1 057	5.0	945	3.0	2 442	5.1
Maury	215	13.5	443	14.0	1 477	1.3	1 530	6.6	1 257	2.8	2 245	5.6
Meigs	34	32.4	40	41.0	332	2.0	215	8.7	290	4.7	363	7.5
Monroe	176	14.1	487	7.8	830	1.6	543	5.6	673	4.3	1 823	6.3
Montgomery	178	15.7	876	6.0	902	2.8	1 003	6.7	842	3.3	2 370	4.2
Moore	51	26.6	143	14.0	330	3.7	267	8.1	317	4.6	621	6.5
Morgan	74	23.4	121	18.3	323	2.0	441	14.1	294	3.9	584	18.0
Obion	135	9.7	3 459	2.2	663	2.0	838	3.9	610	3.3	4 136	3.4
Overton	123	20.1	147	24.0	873	1.4	496	7.1	699	4.3	1 062	7.3
Perry	42	24.0	125	23.2	231	2.0	195	18.6	183	6.1	234	15.0
Pickett	3	–	(D)	(D)	360	2.9	205	15.1	280	6.9	322	11.5
Polk	32	32.4	111	18.4	251	1.9	337	6.8	213	7.1	1 668	.9
Putnam	184	15.5	235	26.1	1 070	1.8	886	16.8	885	3.6	1 221	6.1
Rhea	86	21.3	204	40.1	390	2.5	317	14.9	327	6.4	836	9.9
Roane	99	21.9	82	30.5	520	2.1	436	10.0	425	5.1	968	4.0
Robertson	185	12.4	1 465	10.5	1 391	1.6	1 786	5.1	1 222	2.6	4 833	4.8
Rutherford	235	12.7	683	10.6	1 436	2.0	1 409	4.1	1 315	2.9	2 018	5.2
Scott	45	20.8	93	14.5	219	2.8	244	10.7	170	7.8	245	9.4
Sequatchie	19	18.6	104	6.3	163	2.6	137	5.3	147	3.6	491	2.6
Sevier	171	15.2	201	20.4	734	2.0	427	12.7	695	3.4	675	9.1
Shelby	135	13.9	2 111	1.2	633	2.5	940	10.1	585	4.3	2 500	2.6
Smith	126	18.7	245	25.4	1 022	1.3	602	8.3	911	2.9	1 240	11.8
Stewart	62	25.4	33	14.5	328	3.1	188	9.5	270	6.4	512	13.6
Sullivan	201	14.5	343	17.5	1 232	1.9	883	5.9	1 026	3.4	1 772	4.8
Sumner	162	15.3	545	13.5	1 609	1.7	1 668	7.9	1 407	2.7	2 915	3.5

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Farm production expenses[1]—Con.											
	Cash rent				Property taxes paid				All other farm production expenses			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Tipton	145	13.1	3 305	3.8	587	.9	864	5.1	531	3.9	2 839	2.4
Trousdale	54	34.7	218	28.3	379	4.3	339	9.3	375	4.0	571	11.4
Unicoi	16	35.5	6	41.5	149	2.8	128	15.9	119	8.5	72	16.3
Union	34	44.0	13	43.6	536	1.5	347	13.8	405	6.0	411	15.4
Van Buren	24	26.7	41	34.9	211	4.2	140	6.6	184	6.6	302	8.7
Warren	288	11.7	762	7.0	1 279	1.7	1 267	3.7	1 099	3.1	7 213	1.7
Washington	281	11.8	770	7.0	1 746	1.3	1 384	5.2	1 503	2.4	5 944	2.6
Wayne	93	22.6	265	11.6	679	1.9	454	5.3	581	3.8	672	7.1
Weakley	154	16.1	1 255	8.7	956	2.3	887	6.4	819	3.9	2 774	3.4
White	134	19.0	271	13.1	1 014	1.3	601	5.0	863	3.4	1 550	5.5
Williamson	172	15.0	398	9.6	1 332	1.6	1 523	7.0	1 187	3.1	3 497	3.3
Wilson	214	14.3	233	18.1	1 620	1.4	1 712	5.3	1 435	2.5	1 820	5.2

Geographic area	Net cash return from agricultural sales for the farm unit (see text)[1]				Total cropland				Harvested cropland			
	Farms		Value		Farms		Acres		Farms		Acres	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Tennessee	**76 821**	**.7**	**508 404**	**1.0**	**69 393**	**.7**	**7 069 470**	**.4**	**56 016**	**.6**	**4 064 058**	**.3**
Anderson	462	1.1	229	(H)	413	1.0	20 678	1.8	335	1.3	9 306	1.9
Bedford	1 408	.8	7 069	7.7	1 205	.8	125 393	.9	937	.9	60 522	.8
Benton	432	.9	–407	77.3	346	1.1	35 802	1.5	245	1.5	16 204	1.8
Bledsoe	526	.9	28 606	1.5	491	.8	57 362	1.4	407	1.0	25 162	1.4
Blount	1 052	.8	4 809	12.4	952	.7	63 507	1.0	776	.8	31 742	1.1
Bradley	780	.8	6 588	8.8	675	.8	51 280	1.2	522	1.0	22 947	1.2
Campbell	397	1.1	426	61.7	378	.9	18 589	2.0	328	1.1	8 063	2.4
Cannon	754	.9	186	(H)	636	.9	52 915	1.2	488	1.1	26 253	1.4
Carroll	850	1.0	4 374	16.7	766	.9	107 544	.9	570	1.1	75 103	.9
Carter	620	.9	1 610	15.0	576	.8	21 572	2.0	496	1.0	8 867	2.2
Cheatham	555	.9	2 532	17.2	493	.9	37 521	1.7	390	1.1	15 340	2.2
Chester	409	1.1	797	66.5	370	1.0	41 515	1.5	276	1.4	23 954	2.1
Claiborne	1 398	.8	6 821	7.1	1 359	.8	72 955	1.2	1 261	.8	25 091	1.4
Clay	504	.8	1 440	19.8	479	.7	34 231	1.4	427	.8	13 938	1.8
Cocke	885	.9	2 825	14.8	848	.7	40 579	1.2	741	.8	16 728	1.3
Coffee	968	.8	4 278	15.8	843	.7	89 377	.9	660	.9	56 188	.9
Crockett	380	.8	15 281	4.5	352	.8	135 465	.4	298	1.0	122 539	.4
Cumberland	727	.9	17 518	2.6	644	.8	56 872	1.1	521	1.0	28 917	1.3
Davidson	534	1.6	2 028	17.0	413	1.5	27 279	2.5	285	1.9	9 994	3.3
Decatur	436	1.1	386	70.2	389	1.0	41 682	1.4	303	1.3	17 943	1.5
De Kalb	806	1.0	8 826	7.4	702	.9	55 713	1.5	535	1.1	22 091	1.8
Dickson	1 106	.9	204	(H)	977	.9	77 246	1.3	784	1.0	30 958	1.7
Dyer	527	.8	17 048	4.2	489	.7	217 310	.4	394	.9	195 915	.4
Fayette	717	.7	13 501	5.1	625	.8	180 332	.5	453	1.1	124 627	.4
Fentress	505	1.0	3 264	13.9	467	.9	34 010	1.4	339	1.2	14 715	1.7
Franklin	986	.8	14 709	3.7	864	.8	93 963	.8	717	.9	67 352	.8
Gibson	874	.6	19 321	2.5	792	.6	249 104	.4	610	.8	214 089	.3
Giles	1 570	.7	935	72.5	1 318	.7	139 412	.8	970	.8	54 091	.9
Grainger	1 095	.6	4 166	12.3	1 047	.6	51 881	1.2	938	.7	20 080	1.4
Greene	3 088	.6	11 585	6.8	2 935	.5	153 222	.8	2 678	.6	70 161	.8
Grundy	336	1.0	4 514	3.8	275	1.1	18 409	2.0	217	1.4	10 405	1.8
Hamblen	667	.9	2 093	34.7	611	.7	37 005	1.4	512	.9	15 528	1.5
Hamilton	604	1.2	1 402	35.4	519	1.2	29 842	1.8	373	1.5	13 569	2.0
Hancock	634	.9	2 645	10.0	613	.7	31 879	1.6	588	.7	8 818	1.6
Hardeman	559	1.2	4 279	6.4	491	1.1	91 223	1.0	358	1.5	54 766	.8
Hardin	594	.8	1 397	33.6	532	.7	64 906	1.1	374	1.1	37 432	1.5
Hawkins	1 813	.6	2 583	24.0	1 726	.6	75 961	1.0	1 555	.6	29 439	1.0
Haywood	360	.9	22 907	1.7	336	.8	186 099	.4	270	1.1	166 272	.4
Henderson	858	.9	4	(H)	767	.9	88 884	1.2	555	1.1	44 710	1.3
Henry	830	.7	9 271	5.5	759	.7	118 196	.7	581	.9	79 364	.8
Hickman	677	.9	267	(H)	612	.8	64 222	1.2	462	1.0	27 565	1.4
Houston	288	1.2	221	(H)	256	.9	23 794	2.2	207	1.3	8 580	2.3
Humphreys	577	.9	728	43.0	502	.9	56 319	1.1	403	1.2	29 078	1.2
Jackson	606	1.1	1 399	32.4	554	.9	33 891	1.8	462	1.1	10 642	2.2
Jefferson	1 147	.6	3 918	13.7	1 090	.6	67 561	.9	945	.6	29 901	.9
Johnson	677	.8	2 224	12.5	658	.6	26 292	2.1	619	.7	10 883	2.5
Knox	1 193	1.0	3 502	14.6	1 072	.9	53 025	1.2	844	1.0	22 846	1.4
Lake	80	2.7	5 787	.6	78	.8	85 556	.3	77	.9	82 752	.3
Lauderdale	506	.8	17 651	3.8	462	.8	160 746	.5	349	1.1	139 853	.5
Lawrence	1 617	.9	2 470	35.1	1 438	.9	134 185	1.0	1 036	1.0	61 727	1.1
Lewis	222	1.7	101	87.2	200	.9	16 362	1.5	156	1.4	6 251	2.4
Lincoln	1 661	.8	8 941	8.6	1 460	.7	158 275	.8	1 113	.8	78 016	.8
Loudon	762	.9	13 596	3.5	696	.8	48 127	1.3	556	1.0	22 890	1.3
McMinn	1 073	.9	4 019	12.0	979	.8	79 265	.9	783	.9	35 644	.9
McNairy	720	.9	880	32.4	632	.9	69 615	1.1	418	1.3	37 654	1.2
Macon	1 239	.8	6 365	13.6	1 177	.7	74 443	1.2	1 058	.7	31 889	1.3
Madison	571	1.1	5 983	4.6	507	1.1	104 221	.7	380	1.3	78 243	.6
Marion	294	1.3	1 001	21.0	252	1.3	29 580	1.9	201	1.7	16 421	1.7
Marshall	1 098	1.0	779	70.2	954	.9	95 800	1.0	710	1.0	39 929	.9

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Net cash return from agricultural sales for the farm unit (see text)[1]				Total cropland				Harvested cropland			
	Farms		Value		Farms		Acres		Farms		Acres	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Maury	1 532	.8	6 690	12.3	1 353	.8	144 877	.8	1 044	.8	61 600	.9
Meigs	338	1.1	234	74.1	304	1.0	26 751	1.6	249	1.3	11 413	1.7
Monroe	855	.8	2 792	17.6	807	.8	65 914	1.1	648	.9	31 720	1.3
Montgomery	987	.8	10 112	7.1	897	.7	109 182	.9	730	.8	57 537	.9
Moore	371	.8	826	38.4	327	.8	28 585	1.8	253	1.2	10 117	1.7
Morgan	329	1.1	–548	72.5	308	.8	22 484	1.4	267	1.1	10 750	1.6
Obion	705	.7	20 669	2.7	643	.6	208 836	.4	495	.8	180 398	.4
Overton	890	.9	1 784	24.5	821	.9	62 727	1.3	645	1.0	24 116	1.4
Perry	235	1.3	490	39.2	206	1.0	21 484	1.5	156	1.6	10 855	1.8
Pickett	374	1.1	945	21.3	354	.8	20 825	2.0	301	1.1	7 739	2.9
Polk	255	1.3	1 610	9.8	228	1.2	20 145	1.5	167	1.7	11 723	1.3
Putnam	1 122	1.0	1 237	40.7	1 032	.9	59 331	1.3	858	1.0	24 018	1.5
Rhea	403	1.1	1 142	38.0	370	.9	35 000	1.7	303	1.2	15 631	2.1
Roane	538	.8	425	85.6	489	.8	28 275	1.6	413	1.0	12 679	1.8
Robertson	1 474	.8	25 224	3.1	1 376	.8	182 972	.8	1 191	.9	117 711	.7
Rutherford	1 592	.9	816	(H)	1 328	.9	115 190	1.0	940	1.0	50 481	1.2
Scott	229	1.2	–107	(H)	200	1.3	13 188	2.3	172	1.7	5 658	2.4
Sequatchie	169	1.8	709	19.4	149	1.3	13 842	2.1	118	1.8	5 890	2.3
Sevier	800	.9	552	68.7	733	.8	41 239	1.4	591	1.0	14 973	1.8
Shelby	684	1.3	7 274	5.3	542	1.4	97 757	.8	363	1.6	74 327	.7
Smith	1 047	.7	1 784	40.7	947	.6	73 038	1.1	755	.8	25 036	1.3
Stewart	350	.8	1 592	33.1	326	.8	25 893	1.8	256	1.2	9 439	2.5
Sullivan	1 315	.8	4 076	8.9	1 200	.7	55 084	1.2	1 052	.8	23 626	1.1
Sumner	1 704	.8	9 642	7.7	1 524	.8	119 567	1.0	1 233	.8	56 457	1.0
Tipton	593	.9	12 237	3.2	523	.9	149 220	.6	413	1.1	128 962	.5
Trousdale	406	1.0	3 034	28.2	377	1.0	31 185	1.9	326	1.2	13 252	2.1
Unicoi	155	1.6	112	49.9	143	1.2	3 556	4.8	130	1.5	1 446	4.3
Union	544	.9	503	62.0	511	.8	26 866	1.7	447	1.0	9 157	1.9
Van Buren	228	1.2	434	23.3	208	1.0	17 949	2.5	171	1.4	6 487	2.9
Warren	1 348	.7	27 624	2.7	1 257	.6	112 330	.8	1 054	.7	59 793	.7
Washington	1 806	.7	9 337	7.8	1 692	.6	87 594	.9	1 509	.7	43 294	.8
Wayne	699	1.0	77	(H)	624	.9	59 977	1.2	489	1.1	23 502	1.4
Weakley	1 009	.7	17 588	5.1	900	.6	178 436	.5	647	.8	137 870	.5
White	1 035	.8	1 645	37.9	955	.8	74 070	1.2	808	.9	30 478	1.2
Williamson	1 410	.8	4 468	16.5	1 224	.8	110 347	1.0	907	.9	52 728	1.1
Wilson	1 676	.8	–511	(H)	1 463	.8	117 760	.9	1 069	.9	43 248	1.1

Geographic area	Irrigated land				Livestock and poultry							
					Cattle and calves inventory				Beef cows inventory			
	Farms		Acres		Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Tennessee	**1 768**	**.9**	**45 581**	**.4**	**51 089**	**.7**	**2 145 405**	**.5**	**44 235**	**.7**	**1 039 583**	**.5**
Anderson	19	6.7	112	12.6	325	1.4	9 458	1.9	271	1.6	4 449	2.3
Bedford	12	10.3	194	20.5	1 023	.9	50 949	1.0	880	.9	24 626	1.1
Benton	7	12.6	52	14.6	251	1.5	10 066	1.8	223	1.6	5 121	1.7
Bledsoe	18	6.4	484	3.6	399	1.1	25 110	1.6	347	1.3	11 691	1.8
Blount	31	3.8	452	3.9	727	.9	32 061	1.2	643	.9	15 468	1.3
Bradley	12	8.1	117	5.1	577	.9	30 454	1.0	480	1.1	10 876	1.3
Campbell	4	14.2	(D)	(D)	287	1.3	7 684	2.1	252	1.5	4 083	2.5
Cannon	11	8.6	96	10.7	546	1.1	21 221	1.4	438	1.3	9 501	1.9
Carroll	8	12.1	287	24.2	500	1.3	17 433	1.8	439	1.4	9 636	2.0
Carter	20	7.0	97	18.8	375	1.3	10 698	1.9	281	1.7	3 998	2.6
Cheatham	19	7.5	240	9.7	336	1.4	11 429	1.9	298	1.5	(D)	(D)
Chester	2	25.0	(D)	(D)	206	1.9	9 108	2.1	176	2.1	(D)	(D)
Claiborne	18	7.2	350	11.5	924	1.0	36 566	1.3	790	1.1	18 697	1.5
Clay	17	7.0	91	10.2	327	1.2	14 574	1.6	295	1.3	(D)	(D)
Cocke	20	6.4	859	7.0	574	1.0	16 971	1.4	502	1.1	8 169	1.7
Coffee	20	5.6	1 213	.7	647	.9	31 200	1.0	523	1.1	12 028	1.3
Crockett	8	8.1	(D)	(D)	162	1.9	6 250	3.5	145	2.1	3 588	3.8
Cumberland	9	10.5	33	15.6	528	1.0	23 179	1.2	419	1.2	9 468	1.6
Davidson	27	6.4	479	3.7	307	1.8	9 207	3.0	258	2.0	(D)	(D)
Decatur	2	26.5	(D)	(D)	275	1.4	12 952	1.5	251	1.5	6 940	1.5
De Kalb	23	4.8	425	.6	578	1.1	22 234	1.3	521	1.2	12 291	1.5
Dickson	11	10.7	86	19.6	789	1.0	28 271	1.3	692	1.1	(D)	(D)
Dyer	12	5.2	2 766	.3	200	1.7	10 982	1.9	171	1.9	(D)	(D)
Fayette	19	7.4	728	2.9	379	1.3	25 437	1.8	328	1.4	13 421	2.2
Fentress	5	13.5	59	10.7	360	1.2	17 259	1.6	303	1.4	8 058	1.9
Franklin	48	4.4	812	2.0	660	1.0	30 702	1.2	553	1.1	13 877	1.5
Gibson	9	7.4	1 156	1.1	385	1.2	21 779	.9	333	1.3	9 766	1.1
Giles	15	6.6	1 757	.7	1 247	.7	65 503	.8	1 093	.8	29 029	1.0
Grainger	58	3.9	586	2.8	752	.8	23 927	1.2	648	1.0	12 115	1.3
Greene	54	4.0	221	5.1	2 197	.6	72 582	.8	1 881	.7	33 962	.9
Grundy	10	9.3	297	.9	196	1.5	7 673	2.6	161	1.9	3 276	3.1
Hamblen	15	8.2	747	1.8	483	1.0	16 376	1.8	432	1.1	8 620	2.4
Hamilton	24	6.1	329	2.5	388	1.5	14 734	2.1	334	1.6	6 913	2.1
Hancock	6	11.6	53	12.3	394	1.2	14 311	1.6	339	1.4	7 079	2.0

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Irrigated land				Livestock and poultry							
	Farms		Acres		Cattle and calves inventory				Beef cows inventory			
					Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Hardeman	16	8.1	1 211	1.9	334	1.5	15 877	1.7	295	1.7	9 184	1.8
Hardin	12	7.7	349	8.1	328	1.2	11 744	1.7	297	1.4	6 062	1.8
Hawkins	39	4.7	283	9.5	1 293	.7	36 429	1.1	1 139	.8	18 796	1.3
Haywood	9	6.5	1 714	.7	143	2.2	6 220	2.2	123	2.5	3 442	2.5
Henderson	11	8.4	69	16.1	484	1.2	28 924	1.2	427	1.3	12 709	1.5
Henry	14	7.4	265	9.2	433	1.2	20 299	1.3	346	1.4	8 920	1.6
Hickman	6	9.4	22	13.0	497	1.0	26 182	1.1	449	1.1	13 990	1.1
Houston	4	21.0	34	25.5	229	1.2	11 528	2.2	200	1.4	(D)	(D)
Humphreys	4	16.5	15	18.9	415	1.1	18 997	1.3	364	1.3	9 170	1.4
Jackson	23	7.5	131	11.5	419	1.3	12 086	1.7	382	1.4	6 962	2.0
Jefferson	13	6.8	561	.3	869	.7	35 718	1.1	773	.8	16 126	1.3
Johnson	11	10.0	68	28.5	372	1.2	10 422	2.0	293	1.5	4 360	2.4
Knox	55	3.8	231	3.8	798	1.1	24 664	1.2	705	1.2	12 424	1.5
Lake	5	8.7	2 848	2.3	7	10.5	986	4.8	7	10.5	641	4.3
Lauderdale	19	5.8	1 735	.2	178	2.1	8 739	3.0	155	2.2	(D)	(D)
Lawrence	21	7.3	252	4.7	1 145	1.0	51 670	1.1	1 010	1.0	26 444	1.3
Lewis	3	18.0	(D)	(D)	150	1.5	6 163	1.9	135	1.7	3 491	2.0
Lincoln	26	6.2	822	1.4	1 272	.8	65 083	.9	1 115	.9	32 149	1.0
Loudon	20	7.3	72	4.3	554	1.1	26 892	1.2	449	1.3	11 146	1.7
McMinn	21	6.5	135	5.6	836	.9	39 540	.9	718	1.0	15 049	1.3
McNairy	6	13.0	(D)	(D)	329	1.6	10 365	2.2	293	1.7	5 659	2.4
Macon	27	6.4	171	9.4	806	.9	26 098	1.3	727	1.0	15 039	1.4
Madison	14	6.7	(D)	(D)	241	1.9	12 437	2.0	216	2.0	(D)	(D)
Marion	5	9.6	(D)	(D)	211	1.6	8 939	1.9	183	1.8	4 424	2.1
Marshall	8	12.5	48	17.0	859	.9	41 578	1.1	715	1.0	18 328	1.7
Maury	15	8.1	95	9.0	1 192	.8	60 554	.8	1 069	.8	29 427	.9
Meigs	10	10.8	197	5.9	277	1.2	11 128	1.4	235	1.4	5 639	1.7
Monroe	7	12.3	(D)	(D)	653	1.0	30 053	1.0	544	1.1	11 663	1.5
Montgomery	24	6.2	420	8.9	591	1.0	30 959	1.2	522	1.1	16 051	1.3
Moore	3	17.9	4	20.9	292	1.0	13 777	1.7	263	1.1	6 829	1.9
Morgan	6	11.4	57	10.0	232	1.3	8 853	1.9	204	1.5	4 697	2.0
Obion	8	9.3	717	2.0	280	1.4	18 503	1.5	243	1.5	8 033	1.9
Overton	13	9.9	71	20.2	677	1.1	27 812	1.4	591	1.2	15 150	1.5
Perry	3	13.5	17	21.2	156	1.6	6 011	2.2	137	1.8	2 950	2.3
Pickett	7	14.0	121	26.0	261	1.4	10 864	2.5	231	1.6	5 986	3.0
Polk	3	10.5	(D)	(D)	175	1.7	8 402	1.3	145	2.0	2 182	3.1
Putnam	20	7.8	40	11.9	772	1.1	24 817	1.4	661	1.2	12 592	1.6
Rhea	22	5.6	412	4.1	285	1.3	11 293	2.0	238	1.6	4 989	2.5
Roane	15	7.1	55	17.8	369	1.1	11 993	1.7	333	1.2	6 206	1.8
Robertson	56	3.7	674	2.1	852	1.0	47 887	1.1	754	1.1	22 502	1.4
Rutherford	19	7.7	113	15.9	1 160	1.0	42 486	1.0	972	1.0	20 291	1.1
Scott	1	33.1	(D)	(D)	142	2.1	4 447	3.5	122	2.4	2 177	3.3
Sequatchie	7	11.1	99	34.3	119	1.8	6 739	2.0	100	2.2	2 763	2.7
Sevier	12	10.5	193	5.7	587	1.0	19 013	1.8	509	1.2	9 816	1.9
Shelby	39	4.4	4 853	.3	256	2.1	8 628	2.5	229	2.2	4 980	2.4
Smith	41	4.7	375	3.8	816	.8	29 672	1.3	730	.8	17 187	1.3
Stewart	8	10.9	63	17.9	194	1.7	8 925	2.7	180	1.8	(D)	(D)
Sullivan	34	4.9	84	8.1	877	.9	29 386	1.1	737	1.0	13 322	1.4
Sumner	42	5.1	363	7.9	1 125	.9	45 116	1.1	965	1.0	22 296	1.2
Tipton	13	7.5	1 729	.7	292	1.6	9 796	2.2	257	1.7	5 422	2.4
Trousdale	44	4.8	308	5.6	272	1.5	11 344	2.0	255	1.6	6 672	2.1
Unicoi	4	20.8	36	27.2	84	2.8	1 410	3.9	72	3.2	657	5.0
Union	11	10.9	61	17.2	381	1.2	10 575	1.7	339	1.3	5 540	2.0
Van Buren	6	11.3	57	11.7	164	1.5	7 876	2.1	139	1.8	3 669	2.5
Warren	152	2.0	2 912	1.6	769	.9	38 777	1.1	650	1.1	19 258	1.3
Washington	45	4.3	1 407	1.5	1 307	.7	53 186	.9	1 079	.9	23 073	1.3
Wayne	9	12.6	191	8.7	560	1.0	23 459	1.5	502	1.1	13 114	1.6
Weakley	9	7.1	163	.4	438	1.1	17 326	1.4	372	1.2	8 004	2.0
White	15	8.1	98	13.9	780	1.0	39 502	1.3	686	1.1	18 715	1.7
Williamson	29	5.3	454	2.9	941	.9	47 826	1.0	844	1.0	24 771	1.2
Wilson	31	5.5	213	10.5	1 255	.8	51 090	1.0	1 110	.9	27 209	1.1

Geographic area	Livestock and poultry—Con.											
	Milk cows inventory				Hogs and pigs inventory				Sheep and lambs inventory			
	Farms		Total		Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Tennessee	**2 096**	**.7**	**111 985**	**.3**	**2 043**	**.9**	**321 806**	**.4**	**773**	**1.4**	**13 773**	**2.2**
Anderson	16	7.7	335	4.1	15	8.2	(D)	(D)	12	9.6	135	12.6
Bedford	49	3.4	3 389	1.3	36	5.3	3 615	6.2	16	8.3	355	13.1
Benton	6	12.6	25	6.0	28	5.1	1 968	4.2	2	11.0	(D)	(D)
Bledsoe	17	6.1	1 474	1.8	16	8.8	275	15.5	8	13.1	162	18.2
Blount	30	4.8	1 769	1.1	13	7.0	658	9.2	15	7.9	455	10.4
Bradley	32	2.9	3 856	.9	11	9.2	253	15.0	7	11.7	129	18.8
Campbell	12	9.1	66	11.4	4	18.3	14	20.6	3	22.2	(D)	(D)
Cannon	33	4.7	1 172	3.8	15	7.3	4 422	.8	13	9.6	145	11.0
Carroll	19	7.3	272	7.6	23	6.3	4 949	4.6	1	33.8	(D)	(D)

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Livestock and poultry—Con.											
	Milk cows inventory				Hogs and pigs inventory				Sheep and lambs inventory			
	Farms		Total		Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Carter	15	8.0	730	2.3	5	17.0	17	26.6	5	16.1	69	18.0
Cheatham	2	30.8	(D)	(D)	27	6.4	1 183	10.4	–	–	–	–
Chester	1	42.8	(D)	(D)	15	9.0	1 334	10.0	1	42.8	(D)	(D)
Claiborne	27	6.0	1 082	2.3	17	7.2	(D)	(D)	6	16.5	165	21.6
Clay	7	10.8	(D)	(D)	9	12.6	174	17.8	6	12.5	23	15.3
Cocke	35	4.6	1 224	3.6	12	10.5	269	19.6	13	8.9	90	11.2
Coffee	36	2.9	2 859	1.4	21	6.5	2 836	1.0	10	10.2	236	14.2
Crockett	3	22.8	10	29.9	8	11.5	(D)	(D)	4	17.4	39	19.2
Cumberland	35	4.4	2 296	2.1	36	5.5	6 038	.7	18	7.6	461	11.3
Davidson	1	–	(D)	(D)	15	9.0	73	11.7	4	18.8	(D)	(D)
Decatur	4	19.2	11	19.9	29	5.5	3 474	2.2	4	17.0	103	16.1
De Kalb	15	8.6	569	5.8	17	9.1	(D)	(D)	7	13.6	95	19.1
Dickson	7	11.6	(D)	(D)	56	4.5	2 029	7.4	5	18.4	30	21.1
Dyer	4	13.1	(D)	(D)	11	9.7	1 311	21.3	2	30.2	(D)	(D)
Fayette	17	6.7	965	.9	33	4.5	25 667	.3	5	15.2	124	15.7
Fentress	9	8.0	430	5.1	23	6.6	729	16.0	8	12.1	79	28.0
Franklin	36	4.2	2 999	1.3	66	3.5	19 333	1.3	7	13.7	105	19.3
Gibson	12	8.3	221	2.0	28	4.6	7 506	2.4	6	11.6	74	14.8
Giles	52	3.5	2 811	1.8	37	4.8	9 372	1.1	15	7.8	310	8.3
Grainger	29	5.2	942	3.5	17	7.6	510	23.6	9	9.8	195	11.6
Greene	159	2.1	7 282	1.5	38	5.2	495	19.0	16	7.9	226	12.6
Grundy	14	9.3	466	7.3	24	6.5	1 761	7.4	1	40.7	(D)	(D)
Hamblen	28	5.2	1 129	2.2	10	9.1	1 195	2.5	13	9.5	367	15.2
Hamilton	13	5.9	801	.3	21	7.4	1 017	10.8	7	14.2	109	20.5
Hancock	14	9.0	89	16.9	13	9.3	(D)	(D)	4	18.4	67	21.8
Hardeman	9	12.6	62	16.2	15	7.0	5 221	2.5	6	12.0	144	14.7
Hardin	4	15.9	13	19.5	38	4.5	3 380	5.7	4	11.8	78	11.8
Hawkins	46	4.8	903	4.2	43	4.8	442	6.9	18	7.8	243	21.3
Haywood	7	12.1	29	12.4	23	7.3	1 740	6.8	3	25.2	12	27.4
Henderson	8	11.7	65	7.4	36	4.8	10 485	3.3	9	11.8	182	15.6
Henry	30	5.0	1 793	2.2	24	5.5	36 205	1.4	9	11.7	89	26.4
Hickman	10	8.6	69	13.1	32	4.8	4 356	5.1	8	8.9	56	13.9
Houston	3	18.4	(D)	(D)	7	10.5	199	25.2	2	28.7	(D)	(D)
Humphreys	13	7.3	341	4.4	23	6.0	997	8.9	–	–	–	–
Jackson	3	25.5	10	27.3	27	6.5	403	9.9	4	16.8	39	29.0
Jefferson	33	4.2	1 878	1.7	14	9.1	183	17.5	22	6.4	567	11.1
Johnson	23	5.6	506	7.2	14	8.3	74	11.7	8	11.5	164	13.4
Knox	22	6.8	855	4.1	27	6.0	851	8.0	23	6.4	649	15.0
Lake	–	–	–	–	–	–	–	–	–	–	–	–
Lauderdale	3	15.1	(D)	(D)	14	8.9	2 355	5.7	4	17.7	11	17.9
Lawrence	82	3.4	3 033	2.2	58	4.4	8 115	3.5	10	12.6	191	14.7
Lewis	3	20.7	5	21.7	9	8.0	1 490	2.6	4	17.5	55	18.4
Lincoln	55	3.4	4 317	1.3	40	5.1	3 495	2.2	19	8.3	475	16.1
Loudon	38	3.7	3 744	1.4	11	9.6	91	19.6	14	9.0	295	15.8
McMinn	52	2.4	6 564	.9	10	10.8	394	16.2	7	11.3	24	8.4
McNairy	3	25.4	7	27.9	39	4.7	11 346	2.1	5	13.3	98	10.3
Macon	22	6.1	318	1.6	25	6.3	2 377	5.4	7	11.8	111	17.3
Madison	4	14.4	(D)	(D)	25	6.4	10 210	.4	3	19.3	(D)	(D)
Marion	7	11.7	311	5.2	4	13.9	279	8.1	1	47.9	(D)	(D)
Marshall	56	2.7	4 569	1.0	30	5.4	3 816	4.0	16	8.4	219	11.9
Maury	37	4.1	2 889	1.7	19	6.9	950	7.2	13	10.0	347	11.1
Meigs	13	6.3	708	2.5	4	15.5	(D)	(D)	1	27.6	(D)	(D)
Monroe	49	3.5	4 857	1.0	21	7.5	217	15.3	12	9.5	90	12.3
Montgomery	8	3.6	760	1.3	39	4.3	1 408	6.6	5	15.2	107	20.7
Moore	13	6.5	749	1.0	8	8.0	(D)	(D)	7	11.2	64	14.2
Morgan	8	8.0	251	9.0	10	9.4	83	14.5	5	15.3	35	25.0
Obion	5	13.1	118	2.6	30	4.0	21 149	1.4	8	7.9	205	14.7
Overton	26	5.0	1 200	2.8	26	6.2	811	7.9	8	12.1	59	12.3
Perry	5	15.9	10	29.0	24	5.9	670	7.1	–	–	–	–
Pickett	8	13.1	19	18.5	5	14.1	99	24.8	3	18.4	(D)	(D)
Polk	19	5.7	2 216	.9	6	14.1	(D)	(D)	2	22.9	(D)	(D)
Putnam	25	7.2	1 095	3.5	42	5.6	1 070	10.8	7	13.1	66	17.4
Rhea	14	7.1	643	2.7	6	15.2	768	24.7	4	20.2	(D)	(D)
Roane	11	9.4	469	7.8	14	7.2	136	10.9	15	7.5	141	12.8
Robertson	43	3.4	3 478	1.0	33	5.4	6 982	1.5	7	11.8	279	12.9
Rutherford	61	3.5	2 617	2.6	31	5.6	997	4.8	17	8.0	429	10.3
Scott	4	15.1	216	7.4	5	15.0	17	19.0	6	14.1	74	13.8
Sequatchie	4	13.3	221	3.6	5	16.0	(D)	(D)	2	24.6	(D)	(D)
Sevier	16	8.3	172	12.2	13	9.6	394	22.9	12	9.9	234	12.9
Shelby	10	12.3	42	15.6	22	7.6	335	18.5	14	10.3	148	12.7
Smith	21	5.4	814	5.3	19	7.3	1 883	3.7	14	8.9	332	29.4
Stewart	2	24.3	(D)	(D)	17	7.8	683	4.2	6	12.9	21	16.3
Sullivan	28	4.7	1 075	1.2	17	8.1	104	11.5	9	11.3	69	14.4
Sumner	29	5.1	1 515	2.8	29	6.2	2 500	5.7	17	9.1	189	12.6
Tipton	5	17.9	14	21.1	17	7.6	251	7.6	5	16.3	86	29.3
Trousdale	7	13.1	135	16.4	7	12.9	112	17.2	3	18.1	195	18.0
Unicoi	4	17.8	9	30.3	6	13.8	66	14.4	1	36.2	(D)	(D)
Union	8	11.4	105	14.3	17	7.8	93	11.3	6	13.8	96	16.5
Van Buren	8	11.5	412	4.9	4	18.9	(D)	(D)	1	25.4	(D)	(D)
Warren	42	4.1	2 233	3.1	25	5.9	2 203	5.4	9	10.8	113	13.1

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Livestock and poultry—Con.											
	Milk cows inventory				Hogs and pigs inventory				Sheep and lambs inventory			
	Farms		Total		Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Washington	82	2.6	5 190	1.2	19	7.3	262	4.8	15	8.5	353	11.8
Wayne	9	10.3	16	14.1	20	7.2	2 419	4.7	9	12.9	127	20.0
Weakley	22	4.1	1 342	2.0	54	2.7	44 572	1.0	11	9.7	161	14.0
White	42	3.8	3 172	1.4	25	6.7	1 550	6.7	3	17.0	91	13.5
Williamson	46	4.3	2 078	1.8	29	5.7	2 728	1.0	31	5.8	695	8.1
Wilson	37	4.5	1 505	3.4	38	5.5	1 700	8.7	26	6.7	465	14.1

Geographic area	Livestock and poultry—Con.							
	Layers 20 weeks old and older inventory				Broilers and other meat-type chickens sold			
	Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Tennessee	**2 525**	**1.1**	**1 654 134**	**1.0**	**548**	**.7**	**120 830 210**	**.1**
Anderson	31	6.3	623	6.6	1	41.9	(D)	(D)
Bedford	61	4.1	119 515	1.5	84	.8	24 310 657	.2
Benton	24	6.5	461	8.0	–	–	–	–
Bledsoe	20	7.5	78 146	8.2	–	–	–	–
Blount	42	5.0	572	5.4	1	28.3	(D)	(D)
Bradley	32	5.0	195 565	3.6	56	.9	21 279 814	.1
Campbell	8	13.1	150	13.9	–	–	–	–
Cannon	41	5.4	1 044	8.7	–	–	–	–
Carroll	20	6.8	635	8.2	–	–	–	–
Carter	11	10.4	241	17.2	–	–	–	–
Cheatham	10	11.0	113	13.2	–	–	–	–
Chester	12	9.5	163	14.4	–	–	–	–
Claiborne	31	6.9	338	7.9	1	–	(D)	(D)
Clay	17	7.4	300	8.6	–	–	–	–
Cocke	22	7.0	324	9.2	8	8.8	860 020	4.4
Coffee	27	6.0	26 712	.1	20	3.0	3 273 356	1.0
Crockett	7	13.9	71	16.9	–	–	–	–
Cumberland	38	5.4	(D)	(D)	–	–	–	–
Davidson	20	7.8	1 353	18.1	2	24.1	(D)	(D)
Decatur	13	8.9	200	12.2	–	–	–	–
De Kalb	20	7.5	380	10.2	1	35.3	(D)	(D)
Dickson	57	4.8	1 464	5.4	5	15.0	327	19.5
Dyer	12	9.8	181	10.4	–	–	–	–
Fayette	13	9.4	(D)	(D)	–	–	–	–
Fentress	20	7.7	414	9.2	34	2.4	7 290 026	.5
Franklin	27	5.6	172 493	(L)	53	2.2	8 215 717	1.0
Gibson	19	7.0	405	8.6	–	–	–	–
Giles	85	3.4	133 198	6.3	3	19.2	52	19.8
Grainger	34	5.3	997	8.7	2	14.4	(D)	(D)
Greene	42	5.0	1 063	12.5	17	4.6	4 908 815	1.0
Grundy	12	8.2	67 992	(L)	66	1.6	12 918 596	.5
Hamblen	13	8.8	204	10.3	5	–	1 776 000	–
Hamilton	30	6.8	(D)	(D)	5	9.0	934 564	(L)
Hancock	18	8.3	283	10.3	–	–	–	–
Hardeman	28	6.6	(D)	(D)	2	22.7	(D)	(D)
Hardin	19	7.6	479	8.5	1	28.0	(D)	(D)
Hawkins	56	4.2	829	5.0	1	37.2	(D)	(D)
Haywood	8	14.6	159	20.1	–	–	–	–
Henderson	26	6.6	534	10.2	1	44.2	(D)	(D)
Henry	29	6.6	(D)	(D)	–	–	–	–
Hickman	46	4.8	834	6.4	–	–	–	–
Houston	9	10.0	172	12.7	–	–	–	–
Humphreys	27	6.3	432	6.7	–	–	–	–
Jackson	30	6.5	587	7.7	1	44.0	(D)	(D)
Jefferson	25	6.3	1 286	25.4	6	–	1 880 000	–
Johnson	15	7.8	282	8.9	–	–	–	–
Knox	31	6.1	1 974	2.1	–	–	–	–
Lake	–	–	–	–	–	–	–	–
Lauderdale	7	13.4	243	15.2	–	–	–	–
Lawrence	75	4.2	1 880	5.0	3	14.3	(D)	(D)
Lewis	12	8.9	271	13.0	–	–	–	–
Lincoln	47	4.7	104 576	.1	14	4.0	4 849 462	.3
Loudon	28	6.2	481	8.8	–	–	–	–
McMinn	40	5.4	44 485	19.2	21	2.4	4 938 667	.8
McNairy	19	7.9	450	7.7	2	28.8	(D)	(D)
Macon	31	6.1	554	8.6	–	–	–	–
Madison	10	12.0	390	24.8	–	–	–	–
Marion	11	12.0	200	14.4	13	3.0	3 782 097	.8
Marshall	53	4.8	1 044	5.4	5	13.0	(D)	(D)
Maury	71	3.9	1 205	5.1	1	42.6	(D)	(D)
Meigs	15	8.6	210	10.8	–	–	–	–
Monroe	23	6.6	180	7.5	–	–	–	–
Montgomery	23	6.8	713	8.6	1	39.0	(D)	(D)
Moore	17	7.3	(D)	(D)	8	2.7	2 495 000	.6

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Livestock and poultry—Con.							
	Layers 20 weeks old and older inventory				Broilers and other meat-type chickens sold			
	Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Morgan	12	8.8	180	9.8	17	5.0	1 501 559	3.5
Obion	5	14.6	(D)	(D)	4	–	820 630	–
Overton	46	5.3	979	8.4	1	33.9	(D)	(D)
Perry	16	7.7	294	8.5	–	–	–	–
Pickett	11	11.1	228	12.7	–	–	–	–
Polk	17	7.3	93 254	3.4	29	1.5	7 883 250	.4
Putnam	42	6.0	895	7.9	1	38.3	(D)	(D)
Rhea	20	7.9	(D)	(D)	1	–	(D)	(D)
Roane	18	7.9	286	10.6	4	12.3	(D)	(D)
Robertson	30	6.2	(D)	(D)	2	23.3	(D)	(D)
Rutherford	66	4.3	72 314	6.4	1	42.2	(D)	(D)
Scott	10	11.1	166	13.1	14	5.4	1 989 506	2.3
Sequatchie	6	14.8	69	19.1	5	7.5	960 000	2.3
Sevier	26	6.8	504	10.9	8	7.5	1 572 010	(L)
Shelby	31	7.0	389	10.2	–	–	–	–
Smith	37	5.4	601	6.4	1	29.8	(D)	(D)
Stewart	17	8.2	407	9.6	–	–	–	–
Sullivan	35	5.5	524	9.4	–	–	–	–
Sumner	48	4.9	(D)	(D)	2	27.8	(D)	(D)
Tipton	19	8.0	320	13.2	–	–	–	–
Trousdale	8	12.2	116	16.8	2	21.9	(D)	(D)
Unicoi	5	17.9	252	18.7	–	–	–	–
Union	21	7.1	725	6.0	–	–	–	–
Van Buren	7	13.6	124	13.2	1	25.4	(D)	(D)
Warren	28	6.9	548	8.8	1	36.9	(D)	(D)
Washington	38	5.0	780	9.9	2	16.8	(D)	(D)
Wayne	19	8.0	(D)	(D)	4	15.4	44	19.9
Weakley	17	7.1	238	7.6	2	–	(D)	(D)
White	23	7.9	315	8.3	–	–	–	–
Williamson	46	5.1	653	6.8	–	–	–	–
Wilson	81	4.0	1 346	5.4	2	28.9	(D)	(D)

Geographic area	Selected crops harvested											
	Corn for grain or seed						Wheat for grain					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)
Tennessee	**5 854**	**.6**	**575 878**	**.3**	**58 459 483**	**.2**	**2 360**	**.6**	**305 175**	**.2**	**13 482 402**	**.2**
Anderson	13	7.2	95	6.6	7 688	8.2	–	–	–	–	–	–
Bedford	79	2.8	6 963	1.9	553 805	1.9	35	3.9	2 905	2.7	100 252	2.5
Benton	52	3.7	3 482	3.5	272 542	4.3	3	7.3	118	4.1	4 782	3.4
Bledsoe	31	5.1	1 700	2.5	142 373	2.2	10	5.3	523	3.6	17 429	5.0
Blount	64	2.9	3 145	1.9	251 868	2.1	25	3.6	1 392	2.6	63 895	2.1
Bradley	15	6.1	427	4.7	41 746	4.5	5	9.4	140	16.1	6 015	14.1
Campbell	28	5.9	190	11.4	13 659	13.7	–	–	–	–	–	–
Cannon	50	3.5	5 556	2.5	477 625	2.7	5	10.1	147	8.9	4 455	5.2
Carroll	151	2.3	23 508	1.2	2 453 132	1.1	44	4.0	7 633	1.7	324 835	1.7
Carter	28	5.9	423	2.7	32 467	1.7	–	–	–	–	–	–
Cheatham	47	4.6	1 312	5.9	114 231	6.3	23	6.0	506	5.6	21 833	6.1
Chester	77	3.2	4 379	3.9	364 093	3.1	13	8.0	496	9.1	20 412	8.0
Claiborne	48	4.7	261	4.7	17 256	5.6	4	17.0	10	17.7	531	17.5
Clay	30	4.8	582	6.8	37 520	6.5	4	12.4	36	13.1	838	17.3
Cocke	34	5.3	1 005	4.8	108 136	4.3	6	6.9	306	2.9	13 804	2.6
Coffee	153	2.0	13 899	1.5	1 167 982	1.5	41	3.6	2 749	2.6	99 779	2.6
Crockett	37	3.8	5 134	.8	587 349	.6	36	3.5	5 080	.6	222 348	.4
Cumberland	34	5.1	765	6.3	52 163	7.0	4	8.0	142	1.8	(D)	(D)
Davidson	3	17.6	40	19.1	3 150	21.2	1	31.7	(D)	(D)	(D)	(D)
Decatur	56	3.4	2 536	3.6	183 168	3.6	4	10.8	83	7.3	3 495	6.9
De Kalb	23	6.0	1 529	6.2	125 992	6.7	6	11.5	463	9.9	11 017	12.2
Dickson	57	4.0	838	4.2	74 378	4.5	5	12.4	172	16.1	6 484	21.4
Dyer	113	1.6	21 097	.7	2 453 454	.6	143	1.4	26 188	.6	1 096 956	.6
Fayette	95	2.3	15 595	.6	1 697 670	.6	26	3.1	3 402	2.0	131 516	2.0
Fentress	32	4.7	1 138	3.5	62 727	4.3	2	16.8	(D)	(D)	(D)	(D)
Franklin	168	2.1	19 678	1.2	1 605 432	1.2	118	2.4	11 647	1.6	518 352	1.5
Gibson	256	1.2	55 362	.4	5 808 173	.3	198	1.2	39 288	.4	1 818 894	.4
Giles	74	3.0	7 383	1.6	755 549	1.1	4	10.7	460	4.4	16 790	4.8
Grainger	36	4.9	391	3.9	30 661	3.3	6	7.5	71	5.2	3 300	4.5
Greene	76	3.0	1 962	4.1	161 532	4.1	21	5.1	607	5.5	17 373	4.3
Grundy	29	5.5	1 900	1.6	186 839	1.1	5	10.8	335	1.5	13 114	.9
Hamblen	15	6.7	946	2.2	81 956	2.1	6	12.5	123	17.1	4 625	17.8
Hamilton	14	6.8	724	4.3	55 590	3.8	3	9.8	241	12.0	11 150	6.6
Hancock	27	6.1	100	9.1	5 313	8.4	1	29.3	(D)	(D)	(D)	(D)
Hardeman	67	3.2	8 913	.9	857 905	.8	25	4.7	2 293	1.4	87 642	1.4
Hardin	102	2.4	8 492	2.4	610 655	2.2	14	6.2	1 068	2.1	39 762	2.0
Hawkins	76	3.7	549	6.7	40 812	7.7	7	10.2	42	12.4	777	11.1
Haywood	70	2.7	11 418	1.2	1 164 986	.7	52	2.9	8 079	1.6	355 637	1.6
Henderson	174	2.1	11 045	1.9	951 981	1.9	11	5.7	473	6.0	16 210	5.4

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Selected crops harvested											
	Corn for grain or seed						Wheat for grain					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)
Henry	212	1.6	27 229	1.0	3 049 033	.9	104	2.3	13 116	1.1	559 762	1.1
Hickman	54	3.7	2 136	4.2	195 861	4.3	8	6.5	673	2.9	23 703	3.2
Houston	12	9.5	368	9.9	34 120	9.4	–	–	–	–	–	–
Humphreys	68	3.2	6 767	2.3	668 698	1.9	16	4.6	1 195	1.1	49 436	1.0
Jackson	26	6.7	365	9.5	22 676	9.5	3	19.7	32	23.4	800	22.2
Jefferson	27	3.9	1 245	1.5	117 927	.8	12	6.5	803	5.2	39 485	4.3
Johnson	38	4.6	646	1.9	70 369	1.3	2	23.6	(D)	(D)	(D)	(D)
Knox	18	7.4	527	5.2	46 985	5.0	7	11.5	114	13.4	4 208	16.0
Lake	23	1.9	9 824	.3	1 171 797	.3	31	2.5	9 809	.6	383 674	.8
Lauderdale	95	2.2	14 749	.6	1 691 738	.6	95	2.3	14 033	1.6	588 566	1.3
Lawrence	178	2.4	9 798	2.3	947 510	2.3	39	4.5	3 724	2.9	217 187	3.1
Lewis	7	13.1	327	12.9	18 093	13.6	–	–	–	–	–	–
Lincoln	93	2.7	11 299	1.3	841 885	1.3	39	3.7	6 170	1.2	274 443	1.1
Loudon	18	6.6	759	3.5	53 943	3.3	11	8.4	255	5.9	12 030	4.2
McMinn	20	6.1	656	1.7	50 630	1.4	7	6.0	817	1.6	37 320	.4
McNairy	125	2.5	9 655	1.7	757 012	1.3	8	6.9	969	.9	38 183	.6
Macon	61	4.0	1 645	4.3	155 726	4.0	16	9.0	992	3.5	40 398	3.4
Madison	111	2.3	12 277	.8	1 294 888	.8	34	3.9	4 068	1.1	168 338	.9
Marion	32	4.3	2 916	3.0	245 353	2.8	7	7.7	705	1.1	24 259	.6
Marshall	42	3.5	3 513	1.6	266 535	1.8	14	6.2	1 019	2.5	38 016	2.5
Maury	77	3.0	5 572	2.6	560 524	2.5	33	3.6	2 695	2.0	105 590	2.1
Meigs	10	9.0	298	6.9	16 978	5.5	5	11.3	306	6.5	11 400	6.9
Monroe	22	5.4	1 393	4.7	87 645	4.0	16	5.8	1 061	4.7	42 484	3.9
Montgomery	107	2.2	12 053	1.2	1 554 403	1.0	51	2.9	6 530	.8	307 918	.8
Moore	10	8.8	880	3.7	74 945	2.7	4	16.2	335	5.8	13 320	4.9
Morgan	20	5.8	390	6.4	33 620	6.7	4	10.7	108	2.4	(D)	(D)
Obion	265	1.2	65 351	.4	7 631 770	.4	199	1.4	35 346	.6	1 588 190	.6
Overton	45	4.6	795	6.2	61 759	7.1	13	7.9	720	6.4	25 752	6.3
Perry	66	3.2	3 782	2.8	297 930	2.9	4	8.9	170	6.0	6 060	8.1
Pickett	2	18.5	(D)	(D)	(D)	(D)	–	–	–	–	–	–
Polk	19	6.5	815	1.4	80 751	1.3	10	5.9	1 521	1.0	54 018	1.6
Putnam	49	4.9	630	6.2	41 134	6.7	1	38.3	(D)	(D)	(D)	(D)
Rhea	25	5.3	1 551	6.8	101 761	6.4	8	8.6	262	14.5	7 997	15.1
Roane	12	8.6	77	12.2	4 284	12.6	3	17.9	65	19.4	2 880	20.7
Robertson	264	1.7	25 917	.7	3 196 858	.6	213	1.9	23 861	.7	1 266 755	.7
Rutherford	79	3.1	5 028	2.6	382 596	2.1	35	4.6	2 068	4.7	93 871	5.6
Scott	18	7.4	285	7.8	23 302	8.8	3	11.0	105	9.4	2 760	9.3
Sequatchie	12	7.9	941	3.4	70 650	3.7	4	11.3	221	10.2	8 400	8.6
Sevier	25	7.0	249	16.9	18 895	16.7	4	16.1	100	27.2	4 440	27.6
Shelby	20	4.7	4 521	.5	526 848	.3	26	3.0	6 427	.4	272 526	.3
Smith	33	5.1	1 366	3.7	127 799	3.4	5	14.2	530	4.3	23 200	4.8
Stewart	16	6.7	932	4.6	90 290	4.5	6	7.1	281	2.2	12 520	2.6
Sullivan	47	4.2	530	4.2	47 211	4.0	–	–	–	–	–	–
Sumner	117	2.7	7 336	1.7	655 718	1.6	51	3.5	5 278	1.6	258 808	1.6
Tipton	56	3.4	5 453	2.2	567 485	2.5	57	2.9	9 160	.9	382 579	.7
Trousdale	15	6.1	878	4.0	68 330	3.7	6	8.2	270	8.5	10 460	4.8
Unicoi	6	12.7	(D)	(D)	(D)	(D)	–	–	–	–	–	–
Union	18	7.7	52	9.5	3 105	10.4	1	29.4	(D)	(D)	(D)	(D)
Van Buren	11	9.2	230	9.6	15 483	10.3	1	–	(D)	(D)	(D)	(D)
Warren	71	3.0	4 176	2.2	327 793	2.3	27	4.4	1 932	1.9	71 182	1.7
Washington	80	3.1	1 417	1.9	112 347	1.9	7	10.9	82	12.7	2 707	11.3
Wayne	51	4.3	3 771	3.2	317 529	3.0	2	16.5	(D)	(D)	(D)	(D)
Weakley	250	1.3	51 117	.5	5 425 431	.5	158	1.5	26 101	.6	1 184 319	.6
White	51	4.1	1 612	5.1	115 711	4.9	8	10.6	184	10.2	4 880	10.9
Williamson	52	4.0	4 271	2.4	419 621	2.2	15	6.0	2 639	1.7	107 462	1.8
Wilson	39	4.5	989	3.6	80 445	3.4	11	9.0	615	7.9	25 827	7.8

Geographic area	Selected crops harvested—Con.											
	Cotton						Tobacco					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bales	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Pounds	Relative standard error of estimate (percent)
Tennessee	**1 156**	**.7**	**472 165**	**.2**	**629 487**	**.2**	**14 995**	**.6**	**59 427**	**.6**	**106 785 282**	**.6**
Anderson	–	–	–	–	–	–	25	6.3	51	6.2	88 594	6.8
Bedford	–	–	–	–	–	–	43	4.8	218	6.5	333 254	7.5
Benton	–	–	–	–	–	–	–	–	–	–	–	–
Bledsoe	–	–	–	–	–	–	8	13.5	66	21.4	135 088	22.8
Blount	–	–	–	–	–	–	93	2.6	306	3.7	481 862	3.6
Bradley	–	–	–	–	–	–	12	8.6	135	2.3	237 352	2.1
Campbell	–	–	–	–	–	–	133	2.3	299	3.2	428 638	3.2
Cannon	–	–	–	–	–	–	54	4.2	212	2.3	407 735	1.8
Carroll	41	4.4	9 928	1.1	12 977	1.2	–	–	–	–	–	–
Carter	–	–	–	–	–	–	205	2.1	508	2.8	920 683	2.7
Cheatham	–	–	–	–	–	–	178	2.0	1 167	2.5	2 475 044	2.6
Chester	21	4.9	2 654	2.6	2 803	2.6	–	–	–	–	–	–
Claiborne	–	–	–	–	–	–	951	1.0	2 873	1.3	4 316 641	1.3
Clay	–	–	–	–	–	–	299	1.3	1 012	2.1	1 838 843	2.2

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Selected crops harvested—Con.											
	Cotton						Tobacco					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bales	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Pounds	Relative standard error of estimate (percent)
Cocke	–	–	–	–	–	–	380	1.3	1 039	1.8	1 612 650	1.8
Coffee	2	20.0	(D)	(D)	(D)	(D)	11	9.6	22	12.4	33 579	10.6
Crockett	181	1.4	93 514	.4	118 814	.4	–	–	–	–	–	–
Cumberland	–	–	–	–	–	–	43	4.5	119	4.9	155 905	4.5
Davidson	–	–	–	–	–	–	20	8.2	84	12.6	169 898	12.7
Decatur	–	–	–	–	–	–	–	–	–	–	–	–
De Kalb	–	–	–	–	–	–	180	2.3	650	3.5	1 065 022	3.7
Dickson	–	–	–	–	–	–	161	2.4	1 041	2.7	2 125 465	2.6
Dyer	99	1.8	30 026	.7	39 394	.6	–	–	–	–	–	–
Fayette	84	1.8	36 504	.4	52 111	.3	–	–	–	–	–	–
Fentress	–	–	–	–	–	–	97	3.0	287	3.4	459 350	3.6
Franklin	5	7.6	3 160	2.4	3 188	3.1	43	4.9	94	6.6	142 884	7.9
Gibson	160	1.5	41 313	.6	48 928	.5	–	–	–	–	–	–
Giles	4	15.5	(D)	(D)	(D)	(D)	56	4.0	158	3.5	212 061	3.6
Grainger	–	–	–	–	–	–	606	1.0	1 764	1.3	2 926 488	1.3
Greene	–	–	–	–	–	–	1 603	.7	5 340	1.0	8 708 061	1.0
Grundy	–	–	–	–	–	–	–	–	–	–	–	–
Hamblen	–	–	–	–	–	–	230	1.7	699	2.6	1 097 757	2.8
Hamilton	–	–	–	–	–	–	1	35.8	(D)	(D)	(D)	(D)
Hancock	–	–	–	–	–	–	473	1.0	1 239	1.4	1 891 594	1.4
Hardeman	27	3.1	11 657	.6	16 471	.7	–	–	–	–	–	–
Hardin	2	–	(D)	(D)	(D)	(D)	–	–	–	–	–	–
Hawkins	–	–	–	–	–	–	923	.9	2 485	1.3	4 123 297	1.4
Haywood	170	1.6	105 105	.4	148 091	.3	–	–	–	–	–	–
Henderson	11	5.6	1 348	4.8	1 665	2.3	–	–	–	–	–	–
Henry	2	25.5	(D)	(D)	(D)	(D)	91	2.9	681	2.8	1 563 260	2.6
Hickman	–	–	–	–	–	–	28	5.3	90	5.6	138 128	5.8
Houston	–	–	–	–	–	–	42	4.8	177	7.0	339 227	7.9
Humphreys	–	–	–	–	–	–	7	11.8	39	7.7	75 424	6.5
Jackson	–	–	–	–	–	–	227	1.8	783	3.3	1 294 546	3.5
Jefferson	–	–	–	–	–	–	353	1.2	1 207	1.2	2 192 719	1.2
Johnson	–	–	–	–	–	–	451	1.0	1 078	1.9	1 782 137	1.8
Knox	–	–	–	–	–	–	89	3.3	190	3.6	272 754	3.7
Lake	21	2.8	9 402	.5	14 200	.5	–	–	–	–	–	–
Lauderdale	87	1.9	35 383	.4	51 080	.3	1	–	(D)	(D)	(D)	(D)
Lawrence	1	33.8	(D)	(D)	(D)	(D)	61	4.1	240	6.1	371 786	6.4
Lewis	–	–	–	–	–	–	6	11.2	18	13.9	23 925	11.9
Lincoln	10	10.9	3 216	2.1	3 620	1.5	127	2.6	521	2.6	755 598	2.6
Loudon	–	–	–	–	–	–	96	3.1	277	6.3	408 651	6.5
McMinn	–	–	–	–	–	–	84	3.1	593	3.1	930 190	2.2
McNairy	3	11.2	285	4.1	345	4.3	–	–	–	–	–	–
Macon	–	–	–	–	–	–	741	1.0	3 809	1.5	7 476 791	1.4
Madison	86	2.3	29 991	.7	38 761	.6	–	–	–	–	–	–
Marion	–	–	–	–	–	–	1	28.4	(D)	(D)	(D)	(D)
Marshall	–	–	–	–	–	–	92	3.0	178	2.9	266 316	3.1
Maury	1	–	(D)	(D)	(D)	(D)	219	1.9	932	1.8	1 600 416	1.9
Meigs	–	–	–	–	–	–	28	5.7	140	6.1	238 973	5.9
Monroe	–	–	–	–	–	–	116	2.9	523	2.9	784 558	3.1
Montgomery	–	–	–	–	–	–	327	1.4	3 254	1.3	6 697 407	1.4
Moore	–	–	–	–	–	–	60	3.3	124	3.8	219 577	4.3
Morgan	–	–	–	–	–	–	29	4.9	92	5.2	118 589	5.4
Obion	11	6.8	3 130	3.0	4 444	4.6	1	27.5	(D)	(D)	(D)	(D)
Overton	–	–	–	–	–	–	188	2.2	566	2.7	1 013 500	2.7
Perry	–	–	–	–	–	–	–	–	–	–	–	–
Pickett	–	–	–	–	–	–	189	1.7	828	2.5	1 457 174	2.7
Polk	–	–	–	–	–	–	1	–	(D)	(D)	(D)	(D)
Putnam	–	–	–	–	–	–	236	2.1	695	2.4	1 140 211	2.5
Rhea	–	–	–	–	–	–	5	14.1	19	15.1	26 607	14.9
Roane	–	–	–	–	–	–	35	5.0	90	7.8	135 376	7.2
Robertson	–	–	–	–	–	–	663	1.2	6 212	1.2	13 562 520	1.2
Rutherford	10	9.8	816	5.9	628	5.8	12	8.4	23	10.5	44 550	8.7
Scott	–	–	–	–	–	–	4	17.5	11	22.9	13 509	21.1
Sequatchie	–	–	–	–	–	–	–	–	–	–	–	–
Sevier	–	–	–	–	–	–	162	2.4	497	2.3	898 022	2.5
Shelby	25	3.8	9 167	.9	13 193	1.2	–	–	–	–	–	–
Smith	–	–	–	–	–	–	362	1.3	1 680	2.3	2 747 679	1.8
Stewart	–	–	–	–	–	–	127	2.1	857	2.8	1 697 984	2.6
Sullivan	–	–	–	–	–	–	442	1.3	1 140	1.5	2 064 765	1.5
Sumner	–	–	–	–	–	–	559	1.2	2 773	1.3	5 463 776	1.3
Tipton	91	2.2	43 413	.4	56 814	.3	–	–	–	–	–	–
Trousdale	–	–	–	–	–	–	215	1.7	1 395	2.6	2 412 947	2.8
Unicoi	–	–	–	–	–	–	63	3.5	140	9.0	260 674	9.9
Union	–	–	–	–	–	–	203	1.9	594	2.3	836 061	2.2
Van Buren	–	–	–	–	–	–	18	6.5	33	8.4	48 696	9.2
Warren	–	–	–	–	–	–	70	3.4	207	3.6	287 615	3.7
Washington	–	–	–	–	–	–	789	1.0	3 037	1.3	5 565 007	1.2
Wayne	–	–	–	–	–	–	2	27.5	(D)	(D)	(D)	(D)
Weakley	1	27.2	(D)	(D)	(D)	(D)	17	6.2	99	6.3	228 269	5.8
White	–	–	–	–	–	–	227	2.0	770	2.2	1 169 082	2.0
Williamson	–	–	–	–	–	–	143	2.6	501	2.8	943 546	3.1
Wilson	–	–	–	–	–	–	158	2.4	401	2.7	731 236	3.0

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Selected crops harvested—Con.											
	Soybeans for beans						Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, dry	Relative standard error of estimate (percent)
Tennessee	**4 926**	**.6**	**1 156 282**	**.2**	**37 976 452**	**.2**	**44 161**	**.6**	**1 646 290**	**.5**	**3 326 031**	**.5**
Anderson	–	–	–	–	–	–	305	1.4	9 105	2.0	17 823	3.1
Bedford	51	3.3	7 564	1.4	188 412	1.2	886	.9	43 439	1.0	82 794	1.1
Benton	32	4.5	4 483	3.4	138 752	3.1	209	1.7	8 242	2.2	15 481	2.2
Bledsoe	16	6.5	1 398	3.1	43 317	2.8	371	1.2	19 707	1.6	43 445	2.1
Blount	31	3.6	1 915	2.8	42 111	3.3	687	.9	24 578	1.1	54 629	1.3
Bradley	3	15.7	(D)	(D)	(D)	(D)	499	1.0	20 892	1.3	40 991	1.5
Campbell	–	–	–	–	–	–	258	1.5	7 468	2.6	14 586	3.3
Cannon	45	3.8	6 593	2.3	226 869	2.3	427	1.3	13 881	1.7	27 849	1.8
Carroll	117	2.6	23 330	1.3	851 756	1.2	460	1.4	15 893	1.8	31 633	1.9
Carter	–	–	–	–	–	–	332	1.5	6 749	2.6	12 523	2.7
Cheatham	19	6.6	2 290	8.8	75 397	7.4	277	1.6	10 708	2.1	18 742	2.3
Chester	80	3.1	9 392	3.8	310 452	3.4	194	2.0	7 588	2.4	16 035	3.1
Claiborne	–	–	–	–	–	–	878	1.0	22 004	1.5	44 047	1.7
Clay	9	8.3	498	8.4	14 490	7.2	304	1.3	11 950	2.0	22 994	2.2
Cocke	6	10.8	947	3.9	(D)	(D)	513	1.1	12 399	1.6	25 492	1.9
Coffee	133	2.1	14 998	1.6	421 381	1.4	567	1.0	23 097	1.4	46 609	1.4
Crockett	104	2.1	21 352	.9	707 263	.9	116	2.5	4 040	3.5	7 437	3.6
Cumberland	3	10.4	(D)	(D)	970	3.9	463	1.1	20 542	1.8	43 352	2.4
Davidson	2	22.2	(D)	(D)	(D)	(D)	230	2.2	9 036	3.5	16 807	4.1
Decatur	42	3.9	3 145	2.8	94 010	3.0	269	1.4	12 241	1.9	21 557	1.9
De Kalb	23	6.3	4 167	5.3	131 328	5.3	386	1.4	13 979	1.8	30 132	2.0
Dickson	7	10.7	525	2.4	18 650	2.4	682	1.1	28 455	1.9	49 605	1.7
Dyer	269	1.1	127 101	.5	4 035 560	.5	148	2.1	6 672	3.4	12 963	3.1
Fayette	132	1.9	49 846	.5	1 681 063	.5	321	1.4	20 087	1.5	44 720	1.7
Fentress	4	8.4	165	7.1	4 960	7.1	276	1.5	11 742	1.9	22 506	1.8
Franklin	174	2.0	20 502	1.3	531 852	1.3	555	1.1	18 243	1.5	36 842	1.6
Gibson	360	1.0	97 217	.4	3 605 551	.4	290	1.5	10 682	1.4	21 755	1.4
Giles	29	4.2	5 493	2.5	187 374	2.4	920	.9	39 634	1.1	81 795	1.2
Grainger	1	–	(D)	(D)	(D)	(D)	643	.9	16 991	1.7	38 031	1.7
Greene	13	7.4	1 187	9.7	30 759	8.6	2 139	.6	59 500	.9	131 375	1.0
Grundy	16	7.4	1 383	2.5	43 654	1.6	153	1.9	5 598	3.2	12 849	3.6
Hamblen	9	8.0	758	8.8	18 690	8.6	416	1.1	12 365	1.7	28 780	1.9
Hamilton	6	13.1	450	7.3	9 079	4.8	316	1.7	12 010	2.1	23 169	2.8
Hancock	–	–	–	–	–	–	351	1.3	7 595	1.9	13 751	2.7
Hardeman	80	2.8	18 074	1.6	557 682	1.8	277	1.8	14 654	2.0	27 840	2.8
Hardin	92	2.5	17 427	2.1	512 302	1.6	288	1.4	10 523	2.1	21 655	2.0
Hawkins	6	12.0	149	19.2	4 290	19.3	1 213	.8	26 614	1.1	57 016	1.3
Haywood	149	1.7	44 118	.8	1 354 072	.8	96	2.9	3 759	3.3	(D)	(D)
Henderson	149	2.3	13 512	2.4	420 162	2.3	429	1.3	19 578	1.7	36 995	1.9
Henry	223	1.6	32 500	1.0	1 161 723	.9	381	1.2	17 319	1.6	37 036	1.9
Hickman	27	4.8	2 789	5.6	91 243	5.3	416	1.1	21 948	1.4	41 414	1.8
Houston	1	–	(D)	(D)	(D)	(D)	187	1.6	8 013	2.4	15 034	3.0
Humphreys	27	4.1	4 232	2.3	149 919	2.3	365	1.3	17 383	1.6	33 395	1.7
Jackson	1	34.4	(D)	(D)	(D)	(D)	328	1.6	9 596	2.3	18 612	2.6
Jefferson	8	7.3	1 142	4.9	40 760	3.7	811	.7	25 322	1.1	55 595	1.2
Johnson	–	–	–	–	–	–	369	1.2	7 977	2.2	13 944	2.5
Knox	6	12.6	285	14.7	10 850	14.7	740	1.2	20 951	1.5	41 641	1.8
Lake	73	.8	59 999	.4	2 118 941	.3	4	15.3	146	6.2	(D)	(D)
Lauderdale	210	1.6	83 359	.7	2 649 179	.7	131	2.4	4 634	3.3	10 116	3.3
Lawrence	87	3.1	10 746	2.8	354 914	2.4	928	1.0	37 514	1.2	73 830	1.3
Lewis	2	18.3	(D)	(D)	(D)	(D)	144	1.5	5 310	2.3	10 665	2.9
Lincoln	79	2.8	16 828	1.4	432 714	1.5	984	.9	42 138	1.1	86 253	1.4
Loudon	8	7.8	805	5.8	14 915	3.6	487	1.1	19 837	1.5	41 077	1.6
McMinn	13	4.2	1 821	2.8	38 744	3.9	720	1.0	29 818	1.0	63 819	1.1
McNairy	131	2.3	17 590	1.9	523 260	1.7	287	1.7	9 721	2.3	20 182	2.7
Macon	26	6.6	2 533	4.7	89 136	4.3	728	1.0	24 150	1.4	47 578	1.5
Madison	149	2.1	26 142	1.1	844 390	1.0	233	2.0	8 432	2.8	16 433	3.4
Marion	26	4.3	5 807	2.9	128 031	1.9	175	1.9	7 651	2.4	13 317	2.7
Marshall	8	4.5	1 958	1.4	51 253	1.6	660	1.0	32 389	1.1	60 850	1.2
Maury	52	3.7	7 228	2.3	204 915	2.0	947	.9	45 460	1.1	88 946	1.2
Meigs	4	14.1	333	6.6	9 237	7.1	229	1.4	9 973	1.9	17 857	1.9
Monroe	18	6.2	2 914	2.5	63 064	2.6	584	1.0	24 661	1.6	52 376	1.7
Montgomery	84	2.3	14 662	1.6	518 928	1.4	516	1.1	26 246	1.5	51 177	1.7
Moore	5	10.4	549	4.3	(D)	(D)	227	1.3	8 473	1.7	17 076	1.9
Morgan	3	18.4	95	21.1	4 055	14.8	246	1.2	9 795	1.7	19 252	2.1
Obion	289	1.1	94 339	.5	3 484 302	.5	241	1.5	10 587	1.8	20 434	1.8
Overton	11	8.0	599	7.4	19 640	7.6	557	1.1	20 717	1.5	45 132	1.9
Perry	16	6.6	2 350	2.5	69 041	2.3	129	2.0	4 806	2.9	9 563	3.2
Pickett	3	19.1	79	28.2	3 100	26.0	214	1.7	7 026	3.2	13 658	3.0
Polk	11	6.5	2 451	2.0	74 990	2.6	149	1.9	6 608	2.2	13 892	2.1
Putnam	5	13.8	170	3.0	4 990	1.6	717	1.2	22 033	1.6	45 882	1.8
Rhea	8	7.3	1 123	9.5	24 507	9.8	267	1.4	11 392	2.2	20 671	3.4
Roane	–	–	–	–	–	–	371	1.1	12 299	1.8	22 649	2.0
Robertson	218	1.8	35 660	.8	1 260 685	.8	846	1.0	44 505	1.2	88 968	1.3
Rutherford	59	3.8	7 556	4.0	185 067	4.7	884	1.0	36 420	1.2	65 035	1.3
Scott	–	–	–	–	–	–	162	1.8	5 118	2.6	10 108	3.6
Sequatchie	8	7.3	642	6.2	16 820	3.8	103	2.1	3 771	3.1	8 271	2.6
Sevier	2	26.1	(D)	(D)	(D)	(D)	508	1.2	14 047	1.7	27 411	2.4
Shelby	84	2.6	46 610	.8	1 471 994	.8	233	2.2	9 387	3.0	20 038	3.2

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Selected crops harvested—Con.											
	Soybeans for beans						Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, dry	Relative standard error of estimate (percent)
Smith	7	12.2	1 470	6.9	48 150	5.4	597	1.0	20 411	1.4	43 454	1.6
Stewart	11	6.4	928	6.0	28 226	7.2	171	1.9	6 936	3.1	13 407	3.3
Sullivan	–	–	–	–	–	–	841	.9	21 085	1.2	44 001	1.4
Sumner	78	3.1	7 547	1.9	247 930	1.7	968	1.0	37 205	1.3	70 910	1.5
Tipton	202	1.7	72 437	.7	2 181 741	.6	208	2.1	6 234	4.5	16 467	5.5
Trousdale	6	8.2	621	5.7	11 107	10.6	236	1.7	10 802	2.4	21 133	2.8
Unicoi	–	–	–	–	–	–	79	2.9	1 243	5.1	2 786	5.5
Union	–	–	–	–	–	–	363	1.2	8 596	2.0	17 717	2.2
Van Buren	–	–	–	–	–	–	138	1.8	6 027	3.2	14 387	4.0
Warren	57	3.6	5 665	2.4	148 977	2.1	633	1.1	28 855	1.3	59 373	1.4
Washington	1	–	(D)	(D)	(D)	(D)	1 222	.8	35 672	1.0	85 942	1.1
Wayne	22	6.2	3 089	4.4	107 773	4.7	460	1.2	16 531	1.6	31 312	1.9
Weakley	293	1.2	68 958	.7	2 471 747	.6	379	1.2	14 454	2.1	30 848	2.5
White	12	7.6	579	9.1	16 725	8.0	698	1.0	26 278	1.4	58 407	1.5
Williamson	29	4.6	6 739	2.5	207 188	2.5	827	1.0	40 019	1.3	76 490	1.4
Wilson	11	9.0	1 220	6.1	39 820	7.3	989	.9	40 129	1.1	74 530	1.3

[1]Data are based on a sample of farms.

Table G. **Coverage Estimates: 1997**

[For meaning of abbreviations and symbols, see introductory text]

Item	Census total	Coverage total[1]	Adjusted census		Coverage adjustment (percent)
			Total	Relative standard error (percent)	
Farms ..... number	76 818	14 696	91 514	1.9	16.1
Land in farms ..... acres	11 122 363	843 835	11 966 198	1.7	7.1
Average size of farm ..... acres	145	57	131	(X)	(X)
Farms by size of farm:					
Less than 10 acres	5 919	1 477	7 396	7.5	20.0
10 to 49 acres	24 401	7 539	31 940	3.9	23.6
50 to 179 acres	30 719	4 068	34 787	2.7	11.7
180 acres or more	15 779	1 612	17 391	3.2	9.3
Farms by value of sales:					
Less than $2,500	27 201	9 619	36 820	3.6	26.1
$2,500 to $9,999	28 329	4 233	32 562	3.2	13.0
$10,000 or more	21 288	844	22 132	2.0	3.8
Market value of agricultural products sold $1,000	2 178 389	49 831	2 228 220	1.3	2.2
Farms by type of organization:					
Individual or family	69 585	14 190	83 775	2.0	16.9
Partnership, corporation, or other	7 233	506	7 739	6.3	6.5
Farms by tenure of operator:					
Full owners	54 072	11 392	65 464	2.4	17.4
Part owners	18 600	2 642	21 242	3.2	12.4
Tenants	4 146	662	4 808	6.0	13.8
Operators by place of residence:					
On farm operated	56 710	12 182	68 892	2.2	17.7
Not on farm operated	14 293	2 059	16 352	4.5	12.6
Not reported	5 815	455	6 270	4.5	7.3
Operators by principal occupation:					
Farming	27 680	3 129	30 809	3.0	10.2
Other	49 138	11 567	60 705	2.4	19.1
Operators by sex:					
Male	69 920	13 360	83 280	2.0	16.0
Female	6 898	1 336	8 234	6.9	16.2
Operators by race:					
White	75 735	14 333	90 068	1.9	15.9
Black and other races	1 083	363	1 446	15.4	25.1
Operators by years on present farm:					
4 years or less	9 301	3 229	12 530	5.1	25.8
5 years or more	51 688	8 952	60 640	2.1	14.8
Not reported	15 829	2 515	18 344	5.6	13.7

[1] See text in Appendix C regarding coverage estimates.